SAMSUNG

COMBI VISION
COMBINED COLOUR TELEVISION
and VIDEO CASSETTE RECORDER

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

CRYSTAL PLAYBACK

VIDEO Plus+ **(depending on the model)**

VHS

Safety Instructions

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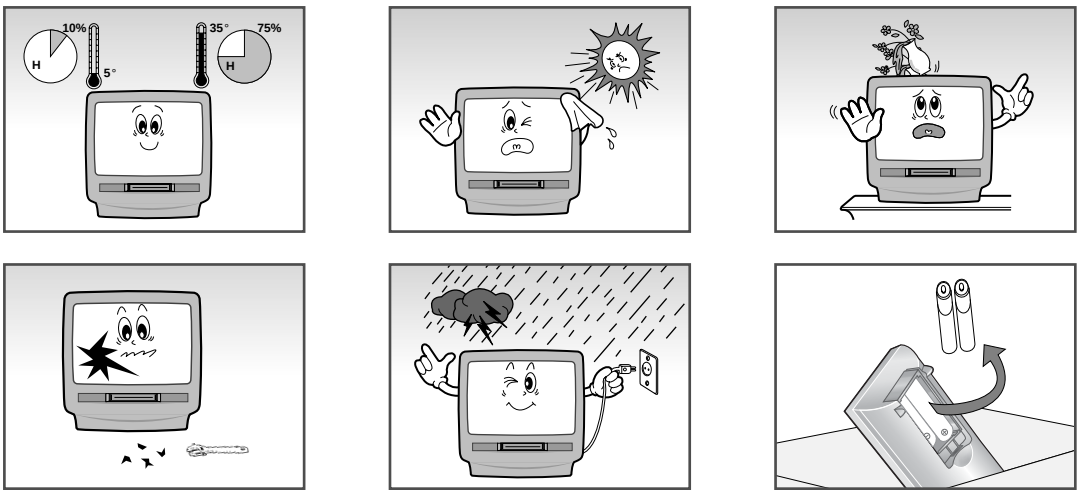
The following illustrations represent the precautions to be taken when using and moving your COMBI VISION.



NEVER OPEN THE TELEVISION

☛ *Displaying any stationary images that exceed the long time, it can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.*

Caution

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE REAR COVER, NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead in the triangle is a warning sign alerting you to dangerous voltage inside the product.

The exclamation point within the triangle is a warning sign alerting you to important instructions accompanying the product.

☛ *Main voltage : 220V-240V~, 50Hz (or Indicated on the rear of the TV set).*

WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

You have just purchased a SAMSUNG COMBI VISION combined colour television and video cassette recorder.

Please take the time to read these instructions, as they will enable you to set up your COMBI VISION easily.

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Symbols

Press

Hold down

Important

Note

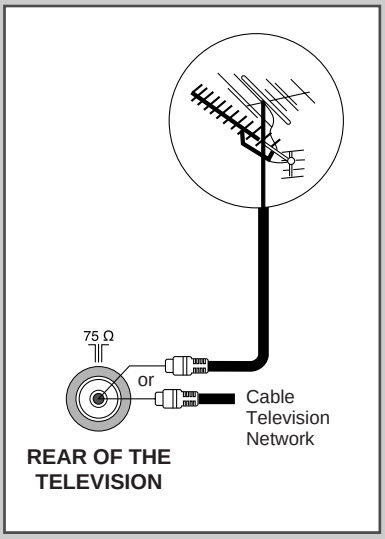
Connecting the Aerial or Cable Television Network

To view television channels correctly, a signal must be received by the set from one of the following sources:

- ***An outdoor aerial***
- ***A cable television network***

Plug the aerial or cable network input cable into the socket at the bottom of the television's rear panel.

➢ If you wish to subscribe to a cable network, contact your local dealer.



Connecting a Decoder

This COMBI VISION is fully equipped to receive scrambled Pay TV broadcasts.

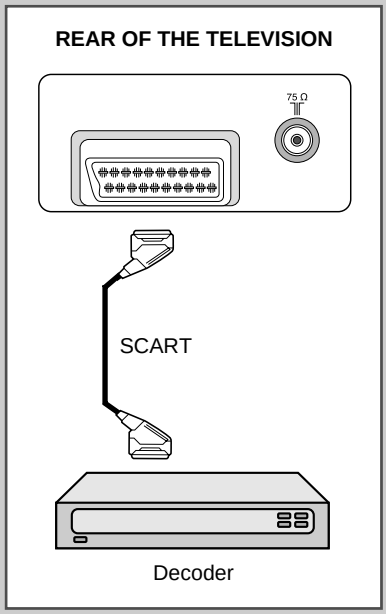
<u>Example</u>: Premiere broadcasts.

➢ If you wish to connect both a decoder and an external VCR to the SCART connector, you must plug:

- The decoder into the VCR
- The VCR into the COMBI VISION (refer to "Connecting Other Video Equipment" on the following page for further details)

1 Plug the SCART cable supplied with the decoder into the SCART connector on the rear of the set.

2 Plug the other end into the decoder.



Connecting Other Video Equipment

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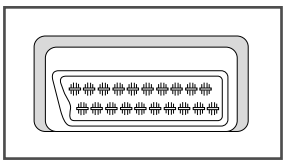
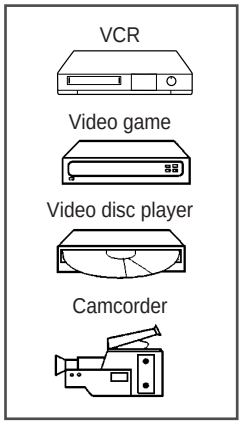
➢ The A/V connector is used for equipment with an RGB output, such as VCRs, video games, video disc players, camcorders and personal computers.



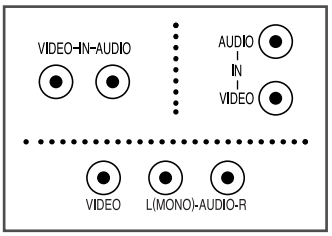
REAR OF THE TELEVISION



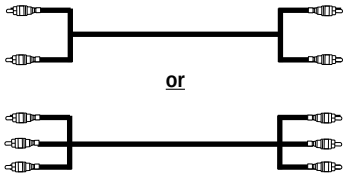
➢ Some A/V devices shown on the right panel are option.

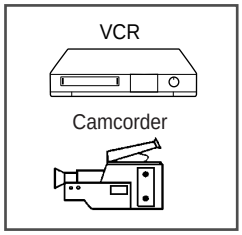
① This end can be fitted with a SCART connector.

➢ The RCA connectors are used for equipment, such as VCRs or camcorders.



FRONT (or SIDE) OF THE TELEVISION (depending on the model)





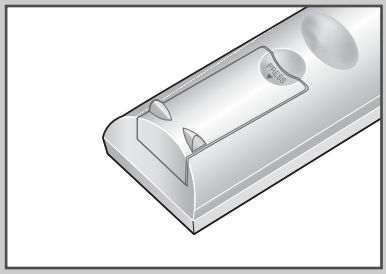
➢ When external equipment is plugged into both the front (or side) and rear connectors, the front (or side) connector has priority. To use the equipment connected to the rear connector, you must first unplug the equipment connected to the front (or side) RCA connectors.

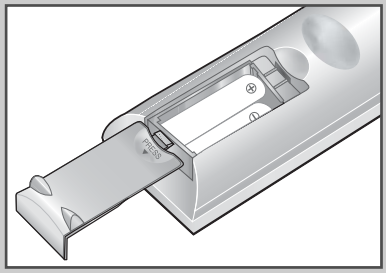
☛ It is an infringement of copyright laws to copy pre-recorded cassettes or to re-record them in any form without the permission of the owners of the corresponding copyright.

Inserting the Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ***Purchase the television***
- ***Find that the remote control is no longer operating correctly***





1 Remove the cover on the rear of the remote control by pressing the symbol downwards and then pulling firmly to remove it.

2 Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
- \+ on the battery against + on the remote control
- \- on the battery against - on the remote control

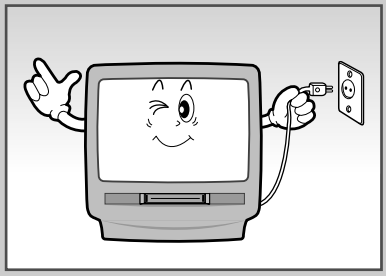
3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.

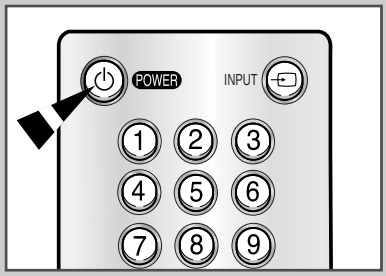
➢ Do not mix battery types, i.e. alkaline and monganese.

Switching Your Combi Vision On and Off

The mains lead is attached to the right side of your COMBI VISION.

☞ If you have purchased this set in the United Kingdom, refer to page 46 for further instructions on plug wiring.





1 Plug the mains lead into an appropriate wall socket and press the Master Switch (**I**) on the front panel.

Result: The set is placed in Standby mode and the Standby indicator lights up on the front panel.

2 To switch your set on, press POWER (⏻).

Result: If stations have already been stored, the station (or AV input) that you were watching prior to switching off the unit is selected automatically. You can now use the remote control, as required.

3 To switch the set off, press POWER (⏻) again.

➢ If you wish to switch the COMBI VISION off completely, disconnect it from the wall socket or press the Master Switch. This is particularly recommended when you will not be using the set for a long period of time and you have not set the VCR unit to record a programme automatically.

Automatic Degaussing to Remove Colour Patches

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A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary. If the receiver is moved or placed in a different direction, or, a coloured patch appears on the screen, the main power switch must be switched to the off position for 120minutes or the power cord must be unplugged for the same interval to allow the automatic degauss circuits to operate properly.

For safety, the receiver should be switched off from the main power switch when it is unattended.

➢ Magnetic fields can cause your television to malfunction. Degaussing is a process that neutralises magnetic fields.

Becoming Familiar with the Remote Control

Some buttons on the remote control are used for several common functions. The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
P▲	Used to display the next stored channel.	Used to select the previous menu option.
P▼	Used to display the previous stored channel.	Used to select the next menu option.
+	Used to increase the volume.	Used to: ◆ Display a submenu containing selections that you can make for the current menu option ◆ Search forwards manually for channels ◆ Increase the value of a menu option
–	Used to reduce the volume.	Used to: ◆ Display a submenu containing selections that you can make for the current menu option ◆ Search backwards manually for channels ◆ Reduce the value of a menu option
MENU	Used to display the television menu.	Used to exit the television menu and return to normal viewing.
V.MENU	Used to display the VCR menu.	Used to exit the VCR menu and return to normal viewing.

Becoming Familiar with the Menu System

The most common functions are assigned a specific button on the remote control. To avoid having too many buttons on the remote control however, the other functions can be selected by displaying one of two menus:

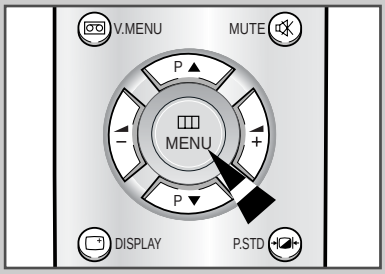
- ***Television menu***
- ***VCR menu***

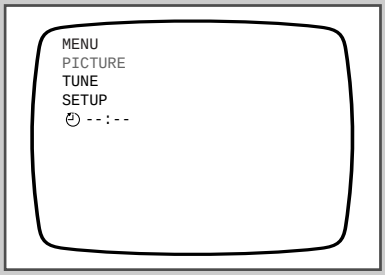
The television menu contains options and is displayed by pressing MENU ( ).

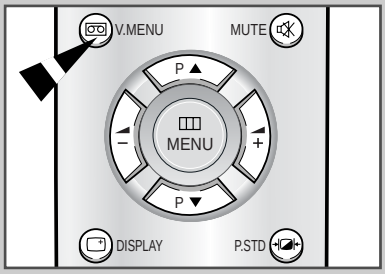
Option	Function
PICTURE	Used to adjust the contrast, bright, sharpness and color.
TUNE	Used to store channels, either manually or automatically.
SETUP	Used to: ◆ Lock the front panel on the set ◆ Set the COMBI VISION to switch on automatically ◆ Activate the 3DB LNA feature (Option)
--:--	Used to set the date and time.

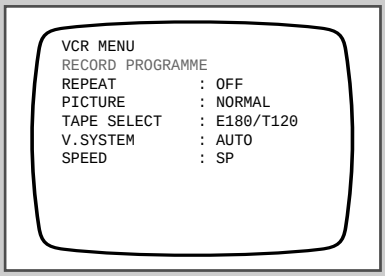
The VCR menu contains options and is displayed by pressing V.MENU ( ).

Option	Function
RECORD PROGRAMME	Used to set the VCR to record a programme automatically.
REPEAT	Used to repeat playback of all or part of a cassette.
PICTURE	Used to adjust the picture contours.
TAPE SELECT	Used to select the length of cassette.
V.SYSTEM	Used to select the video standard. ➢ Only PAL System is available on UK model and so the **V.SYSTEM** doesn't need.
SPEED (Option)	Used to select the recording speed.









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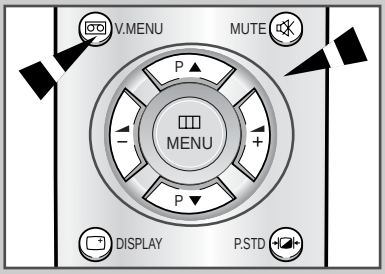
Selecting a Menu Option



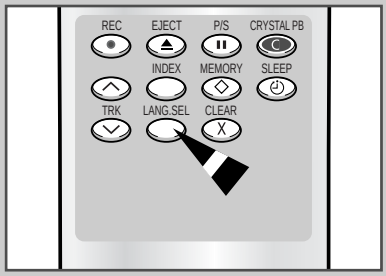
To select a menu or sub-menu option, follow the procedure below.

1	Press MENU ( ) or V.MENU ( ). Result: The corresponding menu is displayed.
2	Press P ▲ or ▼ one or more times until the required option is displayed.
3	To display the possible values of an option or its sub-menu, press + or -. ➢ To move around a sub-menu and select the required function, press P ▲ or ▼.
4	Follow the detailed instructions for each function (channel storage, adjustments, etc.) in the rest of this booklet.
5	When you are satisfied with your settings, press MENU ( ) or V.MENU ( ) one or more times to return to normal viewing.

➢ Step **5** is optional as the menu disappears automatically after about 30 seconds.

Choosing Your Language

When you start using your television for the first time, you must select the language in which the various menus and indications are displayed.



1 Press the LANG.SEL button.

Result: The list of available languages is displayed.

2 Press P ▲ or ▼ one or more times until the required language is selected.

3 When you are satisfied with your choice, press LANG.SEL to return to normal viewing.

➢ If you do not press this button, the list disappears automatically after a few seconds.

Result: The menus are then displayed in the language of your choice.

➢ The list of languages displayed may change without notice.

Setting the Date and Time

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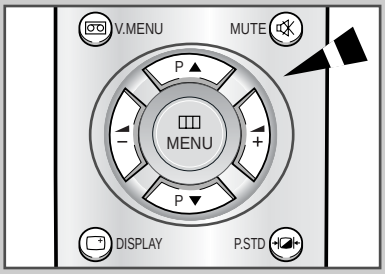
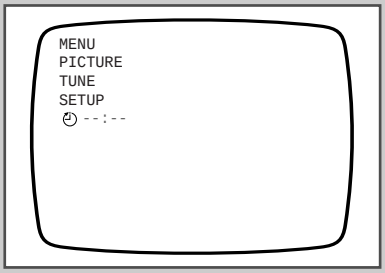
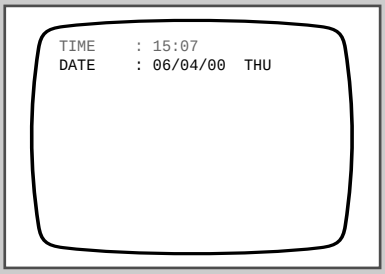
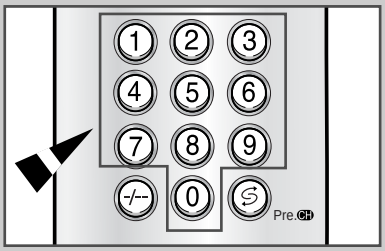








Your COMBI VISION contains a 24-hour clock and calendar used to:

- ***Preset the VCR to record up to six programmes automatically over a period of one month***
- ***Switch the set on or off automatically at a specific time***

You must set the date and time when:

- ***You purchase the COMBI VISION***
- ***The power supply is switched or cut off***

1 Press MENU ( ) on the remote control.

Result: The television menu is displayed.

2 Select the option by pressing P ▲ or ▼ the appropriate number of times, followed by the + button.

Result: The current date and time are displayed.

3 Enter the hour and then the minutes by pressing the numeric buttons.

➢ When a time is entered, all single digits must be preceded by a zero.

Example: 3:07 p.m.

Enter 15:07

4 To select the date, press P ▼.

5 Press the numeric, + or - buttons to enter the:

- Day
- Month
- Year

Result: The day of the week is displayed automatically next to the date.

➢ When a date is entered, all single digits must be preceded by a zero.

Example: 6th April 2000

Enter 06/04/00

6 When you are satisfied with your settings, press MENU ( ) twice to return to normal viewing.

➢ If you do not press a button for more than 30 seconds, the display disappears automatically.

If you make a mistake when entering the date or time, press the - button one or more times to return to the incorrect figure and enter the correct one.

You cannot set the date and time during a programmed recording.

Storing the Stations Automatically (depending on the model)

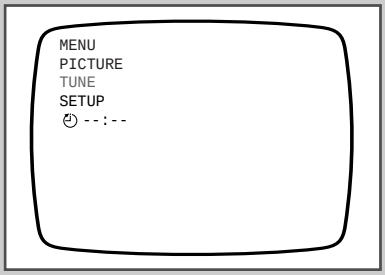
You can scan the frequency ranges available on your television and in your country and store all the stations found automatically. If you have a dual tuner model, the stations are stored for both tuners at the same time (television and VCR).

The stations are stored in the order in which they appear in the frequency bands. It is possible that the automatically allocated programme numbers may not correspond to those by which you wish to identify the stations. If this is the case, you can then sort them manually and clear any stations that you do not wish to watch (see page 14 for further details).

➢ If you wish to receive a scrambled television station, check that the decoder is switched off. Switch it back on once you have finished storing the stations.

1 Press MENU (▥).

Result: The television menu, illustrated opposite, is displayed.

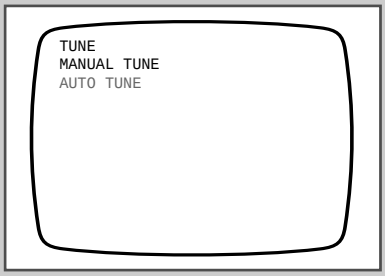


2 Select the **TUNE** option by pressing P ▼, followed by the + button.

Result: The tuning menu is displayed.

➢ The **TUNE** option is not available if:

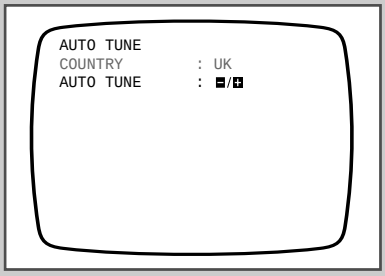
- The AV input is selected; press INPUT (⇥) to select an ordinary station
- A video cassette is playing; stop the cassette



3 Select the **AUTO TUNE** option by pressing P ▼, followed by the + button.

Result: The **AUTO TUNE** menu is displayed with the **COUNTRY** is selected.

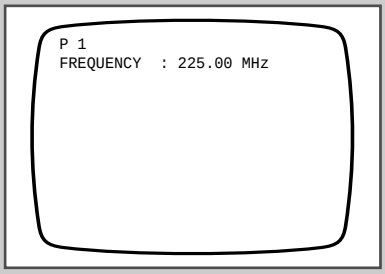
4 Select your country by pressing the +, The following countries are available: **AUSTRIA - BELGIUM - CROATIA - DENMARK - FINLAND - FRANCE - GERMANY - ICELAND - IRELAND - ITALY - NETHERLANDS - NORWAY - POLAND - SPAIN - SWEDEN - SWITZERLAND - TURKEY - UK.**



5 Select the **AUTO TUNE** option by pressing P ▼, followed by the + button.

Result: The scan starts and the stations are stored in the order in which they are found, starting with programme 00. The scan stops automatically once all the frequency bands have been scanned.

➢ You can stop the scan at any time by pressing MENU (▥).
When the scan stops before more than two stations are stored, many of the stored stations before the scan is done remain “stored”.



Sorting and/or Clearing the Stored Channels

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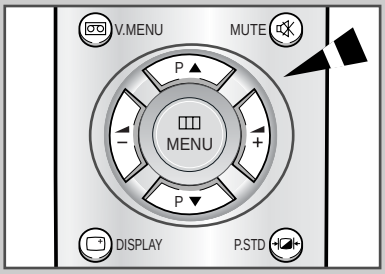
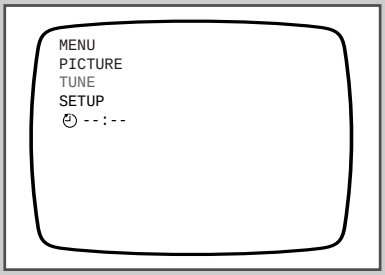
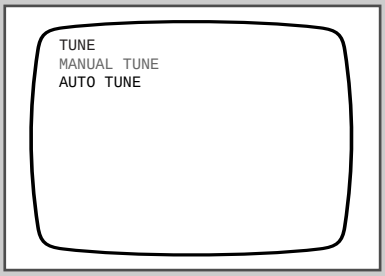
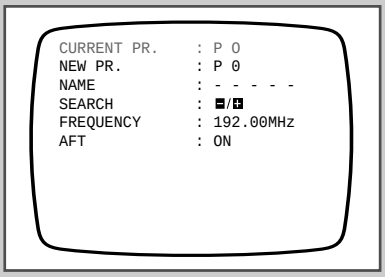
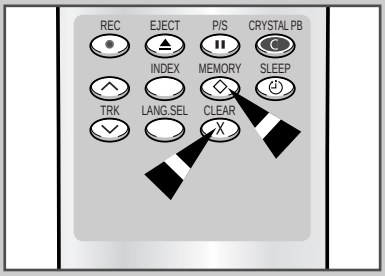










The Sort operation enables you to reassign programme numbers to previously stored stations or to clear stations that you will never watch. This operation is often required after you have stored the stations automatically. You need only keep the stations that you wish to watch.

1 Select the station to be assigned a new programme number, using the numeric buttons or the P ▲ or ▼ buttons.

2 Press MENU ( ).

Result: The television menu is displayed.

3 Select the **TUNE** option by pressing P ▼, followed by the + button.

Result: The tuning menu is displayed with the **MANUAL TUNE** is selected.

➢ The **TUNE** option is not available if:

- The AV input is selected; press INPUT ( ) to select an ordinary station
- A video cassette is playing; stop the cassette

4 Press the + button.

5

If you wish to...	Then...
Assign a new number to a preset station	**1** Select the **NEW PR.** option and enter the new programme number to be assigned to the station. Example: To move the station from programme 21 to 02, enter 02. **2** Press MEMORY (◇) to store the change. Result: ◇ **:STORE** is displayed briefly in red.
Clear a preset channel	**1** Select **CURRENT PR.**. **2** Press CLEAR (**X**). Result: **X:CLEAR** is displayed briefly in red and the station is cleared. The programme number can be reused for another station. To assign a new station, store a new station manually (refer to page 16 for further details on this function).

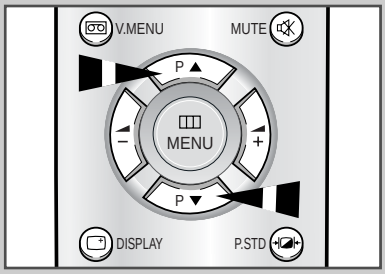
6 Repeat Step **5** if you wish to reassign or clear other programmes; otherwise, press MENU ( ) the required number of times to return to normal viewing.

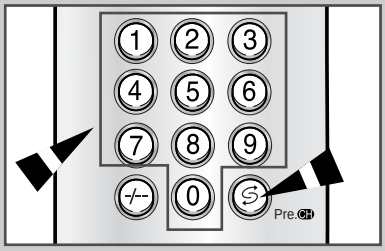
➢ If you wish to cancel the operation without taking into account your changes, press MENU ( ) before you press MEMORY (◇).

Changing Stations

Once you have stored the channels on your COMBI VISION, you can select them easily via your remote control.

To switch...	Press...
To the next station	P ▲.
To the previous station	P ▼.
To the station of your choice	The appropriate numeric button(s); see the section below for further details.
Repeatedly between the last two stations displayed	PRE-CH (⟲) as many times as you require.





Selecting a Station Numbered Ten or Over

When selecting a station stored at programme position ten or higher, follow the instructions below.

1 Press the **-/--** button on the remote control.

Result: **P- -** is displayed in the top left-hand corner of the screen.

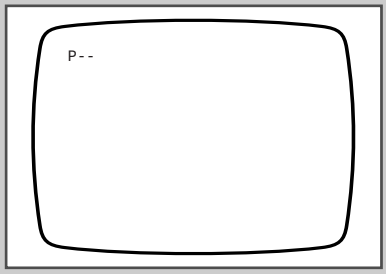
2 Enter the two-digit station number.

Example: To select station 42, press 4 followed by 2.

3 To enter one-digit station numbers:
- Precede the number with a zero (0)

or
- Press the -/-- button again

Result: **P-** is displayed; you can now enter the required one-digit number without a zero.



Storing the Stations Manually

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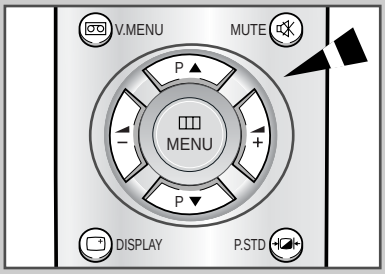
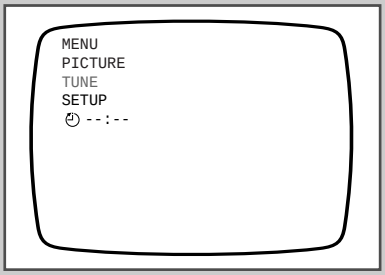
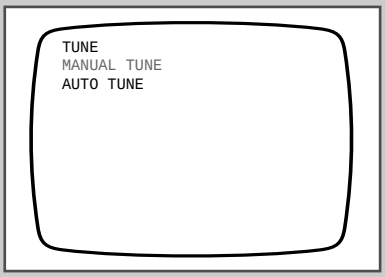
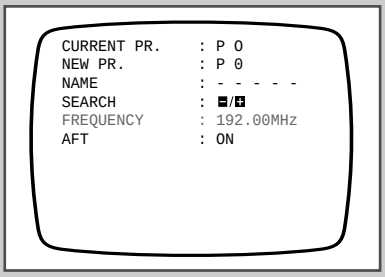
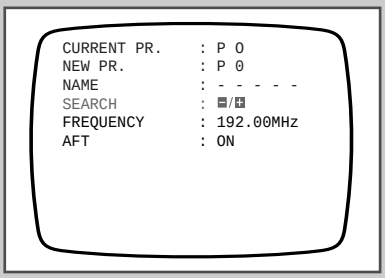










You can store up to 100 television stations, including those received via the cable network. If you have a dual tuner model, the stations are stored for both tuners at the same time (television and VCR).

When storing stations manually, you can choose:

- ***Whether or not to store each of the stations found***
- ***The programme number by which you wish to identify each stored station***
- ***To enter the frequency of the station to be stored directly, if you know it***

You have about 30 seconds to make each selection described below. If you do not make a selection within this period of time, the menu disappears.

➢ If you wish to receive a scrambled television station, check that the decoder is switched off. Switch it back on once you have finished storing the stations.

1 Press MENU ( ).
Result: The television menu is displayed.

2 Select the **TUNE** option by pressing P ▼, followed by the + button.
Result: The tuning menu is displayed with the **MANUAL TUNE** is selected.

➢ The **TUNE** option is not available if:
- The AV input is selected; press INPUT ( ) to select an ordinary station
- A video cassette is playing; stop the cassette

3 Press the + button.
Result: The list of options is displayed.

4

If you...	Then...
Know the frequency of the station to be stored	◆ Select the **FREQUENCY** option by pressing P ▼ the required number of times. ◆ Enter the required frequency by pressing the numeric buttons or the + and - buttons. Result: The station is displayed. ◆ Go to Step **5** on the following page.
Do not know the frequency of the station to be stored	◆ Select the **SEARCH** option by pressing P ▼ the required number of times. ◆ Press: - to search backwards through the frequencies + to search forwards through the frequencies Result: When a station is found, the searching stops and the channel is displayed on the screen. You can then: - Continue the search by pressing + or - again - Store the station; go to step **5** on the following page

Storing the Stations Manually (cont.)

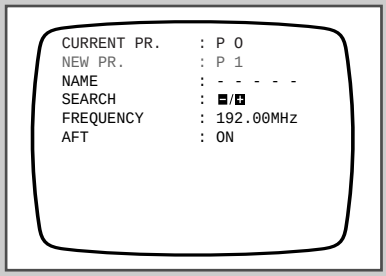
5 When the station to be stored appears on the screen, select the **NEW PR.** option by pressing P ▲ or P ▼ the required number of times.

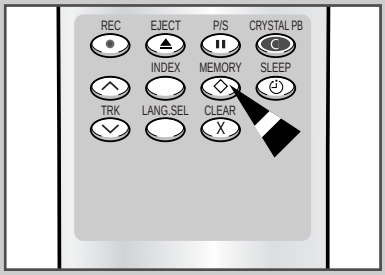
6 Enter the programme number to be assigned to the channel using the numeric, + or - buttons.

7 Press MEMORY (◇) to store the station.

Result: ◇ **: STORE** is displayed briefly in red.

8 To store other stations, return to Step **4**.
Otherwise, press MENU (▥) the appropriate number of times to return to normal viewing.





➢
- If you wish to cancel the operation without storing the station, press MENU (▥) before you press MEMORY (◇).
- If you have already stored the station, you can clear it and replace it with a different station.

  To clear a station, refer to the section entitled "Storing and/or Clearing the Stored Stations" on page 14.

Activating the 3DB LNA (Low Noise Amplifier) Feature (depending on the model)

This function is very useful in the situation that the TV is used in weak signal. LNA amplifies the TV signal in the weak signal area, but not noise.

This feature is working only weak signal condition, and that is memorized on current channel, additional.

1 Press the MENU button (▥).

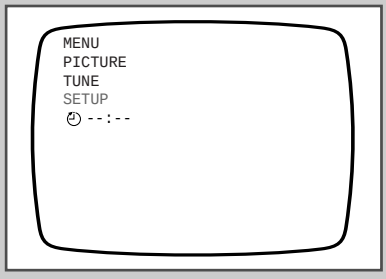
Result: The television menu is displayed.

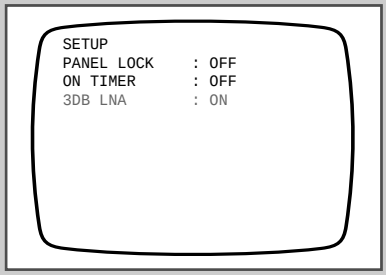
2 Select the **SETUP** option by pressing P ▲ or ▼ buttons one or more times, followed by the + button.

3 To activate this feature, press the + button to set the **3DB LNA** option to **ON**.

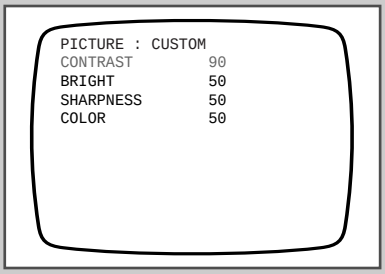
4 Press the MENU button (▥) the required number of times to return to normal viewing.

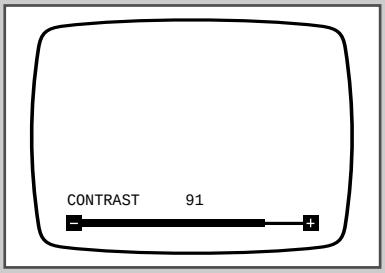
5 If you wish to deactivate this feature, repeat the procedure and set the **3DB LNA** option to **OFF**.





Adjusting the Picture and Storing Your Preferences





GB

Several settings are available on your television to enable you to control the quality of the picture:

- ***Contrast, Bright, Sharpness, Colour.***

1 Press MENU (▥).
Result: The television menu is displayed.

2 Select the **PICTURE** option by pressing the + button.
Result: The picture adjustment options are displayed.

3 Select one of the options by pressing P ▲ or ▼ one or more times, followed by the + button.
Result: A horizontal bar is displayed.

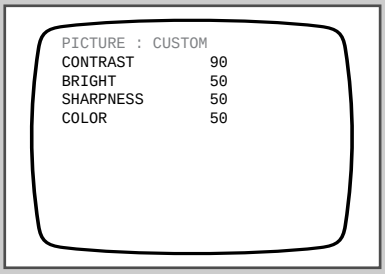
4 To decrease or increase the value displayed, press - or + respectively.
➢ You have approximately three seconds to modify the value, before the previous menu is redisplayed.

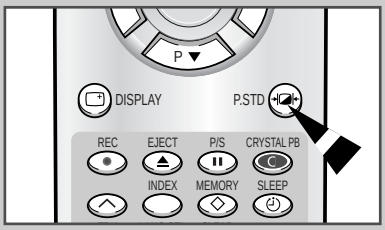
5 When you are satisfied with the settings, press MENU (▥) the appropriate number of times to return to normal viewing.
Result: Your settings are stored and will be kept next time you switch the television on.

➢ These picture settings are maintained when you:

- Place the set in Standby mode
- Unplug the set from the wall socket or a power failure occurs

Adjusting the Picture Setting





You can select the type of picture which best corresponds to your viewing requirements. The following picture effects are available in the order given: Custom, Standard, Dynamic, Movie and Mild.

1 Press MENU (▥).
Result: The television menu is displayed.

2 Press - or + button.
Result: The “Picture” menu is displayed.

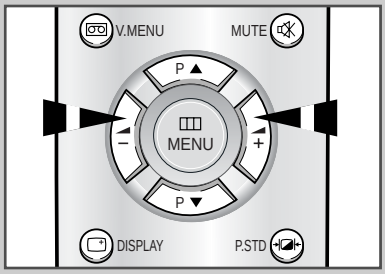
3 Press - or + button repeatedly to cycle through the five choices: **CUSTOM, STANDARD, DYNAMIC, MOVIE, MILD.**

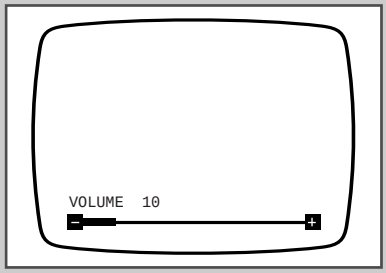
➢ ***You can select the required picture effect by simply pressing the “P.STD” (Picture standard) button on the remote control.***

Adjusting the Volume

Proceed as follows to adjust the volume via the remote control.

To...	Hold down the...
Increase the volume	+ ◢. Result: A horizontal bar is displayed and the volume increases until you release the button. The cursor moves to the right to indicate the volume.
Decrease the volume	− ◢. Result: A horizontal bar is displayed and the volume decreases until you release the button. The cursor moves to the left to indicate the volume.





➢ The volume setting is maintained when you:

- Place the set in Standby mode
- Unplug the set from the wall socket or a power failure occurs

Switching the Sound Off Temporarily (MUTE)

You can switch the sound off temporarily.

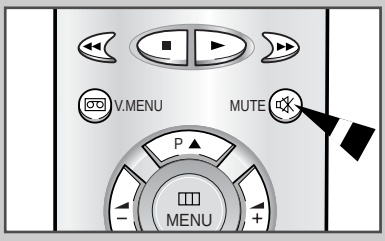
Example: You wish to answer the telephone.

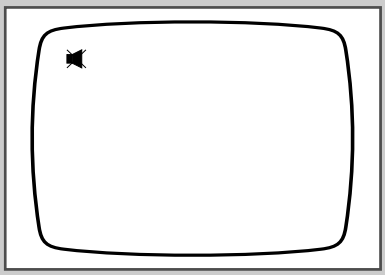
1 Press the MUTE (🔇) button on the remote control.

Result: The sound is switched off and 🔇 is displayed on the screen.

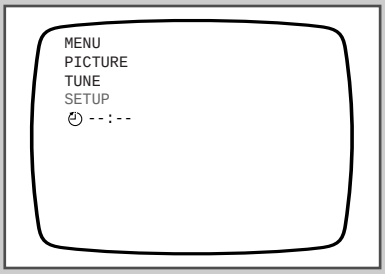
2 When you wish to turn the sound back on, press the same MUTE (🔇) button again or press the VOL + button.

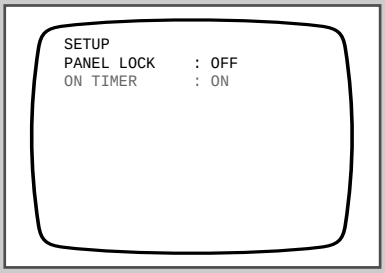
Result: The sound returns at the same volume as before and the 🔇 indication disappears.

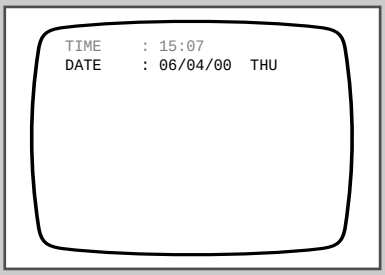




Setting the Combi Vision to Switch On Automatically







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You can set your COMBI VISION to switch on automatically every day and stop after one hour if none of its functions are used.

➢ Before using this function, check that the time has been correctly set. If it has not been set, the time and date setting function is activated automatically; refer to page 12 for further details.

1 Press MENU (▯▯▯).

2 Select **SETUP** by pressing the P ▲ or ▼ buttons the required number of times.

3 Press the + button.
Result: The corresponding menu is displayed.

4 Select **ON TIMER** by pressing the P ▲ or ▼ buttons the required number of times.

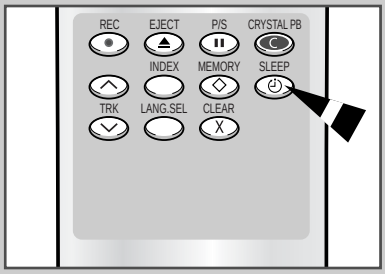
5

To...	Then...
Set the time at which the television is to switch on	**1** Press the + button to display the clock. **2** Select the hour and minutes by pressing the numeric buttons.
Cancel the automatic switch on timer	Press the + button once. Result: **OFF** is displayed.

6 Place the set in Standby mode, by pressing POWER (⏻).
Result: The set will be switched on every day at the time requested and will remain on for one hour if no other function is used during this time.

Setting the Sleep Timer

You can select a time period of between 15 and 180 minutes after which the television automatically switches to Standby mode.



1 Press the SLEEP button ( ) once to display the current timer setting.

2

If the timer is...	**A symbol is displayed, followed by...**
Already set	The remaining time before the television switches to Standby mode.
Not yet set	00.

3 Press the SLEEP button ( ) again one or more times until the appropriate length of time is displayed:

Result: The television switches to Standby mode when the timer reaches 0. During the last minute, **POWER OFF** is displayed.

➢ After setting the timer, you can display and modify the remaining time by pressing the SLEEP button ( ) again. To switch the timer off, select **00**.

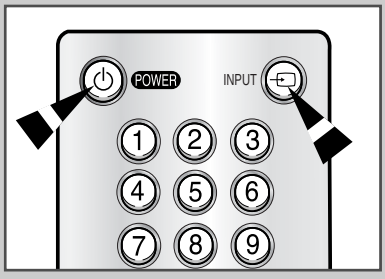
☞ Your COMBI VISION switches to Standby mode automatically fifteen minutes after the last broadcast has finished on the selected channel.

Viewing Pictures from External Sources

You can use your television to watch pictures from an external source, such as a:

- ***Camcorder or VCR***
- ***Video disc player***
- ***Decoder (automatic switch over)***

  ➢ When you use a decoder with your COMBI VISION, the signal from the decoder will be givin automatic priority over normal A/V signals.



1 Connect the AV cables, referring to pages 5 and 6 if necessary.

2 Switch the COMBI VISION on.

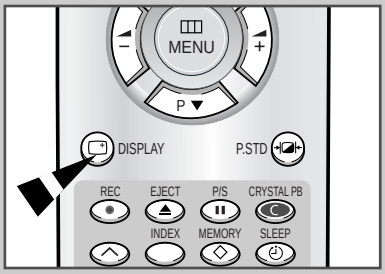
3 Start playback on the external source.

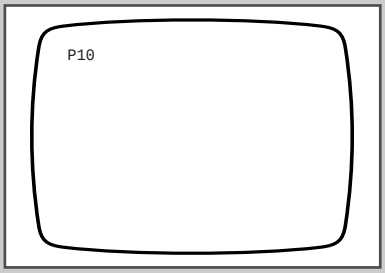
Result: The pictures from the external source appear on the screen.

➢ If the pictures do not appear automatically, press the INPUT button ( ) to select the AV input. To return to the normal channels, press the same button again.

➢ To connect different types of video equipment to your television, use the input connectors on the front and rear panels (RCA and SCART respectively). If equipment is plugged into both these connectors, the front connector has priority.

Displaying Information on the Screen





GB

You can display various types of information on the screen to help you use your COMBI VISION:

- ***Television mode:***
  - ***Selected programme***
  - ***Time (displayed for about 4~6 seconds)***
- ***VCR mode:***
  - ***Selected programme (when you switch back to the television mode)***
  - ***Time (displayed for a few seconds)***
  - ***Tape counter***
  - ***Time remaining on the cassette (displayed for a few seconds when the cassette starts playing)***
  - ***Current function***
  - ***Recording speed (LP option)***
  - ***Automatic track alignment (A.TRK) indicator (displayed for a few seconds when the cassette starts playing)***

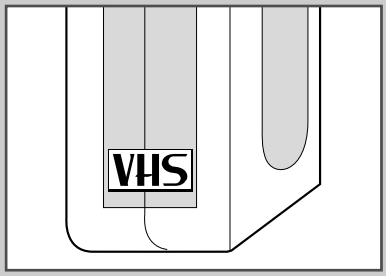
1	To display the information, press DISPLAY ( ).
2	To remove the information from the screen, press DISPLAY ( ) again.

When a cassette is present in the VCR, even if it is stopped, the same information is displayed in television mode as in the VCR mode.

The information remains displayed until you press DISPLAY ( ) again.

Cassette Types and Recording Speeds (Option)

Only use high-quality VHS cassettes with your VCR. Cassettes can be of different lengths.



You can also record a cassette at two different speeds:

- ***SP (Standard Play)***
- ***LP (Long Play) - option***

In Long Play mode:

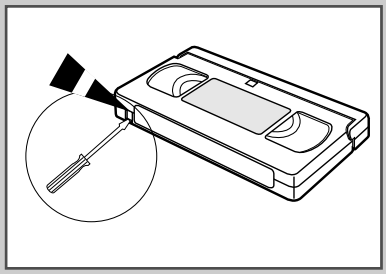
- ***Each cassette lasts twice as long***
- ***The recording is of a slightly lower quality***

Type	Recording Time (in SP)
E-30	30 mins. or 1/2 hour
E-60	60 mins. or 1 hour
E-120	120 mins. or 2 hours
E-180	180 mins. or 3 hours
E-240	240 mins. or 4 hours
E-300	300 mins. or 5 hours

Type	Playback Time (in SP)
T-60	60 mins. or 1 hour
T-120	120 mins. or 2 hours
T-180	180 mins. or 3 hours

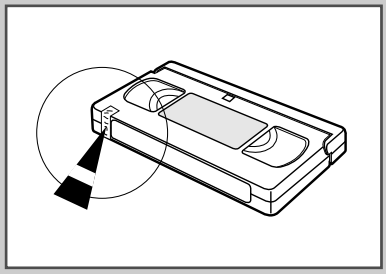
Protecting a Recorded Cassette

Video cassettes have a safety tab to prevent accidental erasure. When this tab has been removed, you <u>cannot</u> record on the tape.



1 If you wish to protect a cassette, break off the tab using a small screwdriver.

2 To re-record over a protected cassette (safety tab broken), cover the opening with adhesive tape.

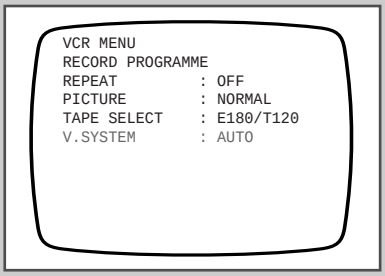


➢ When you insert a video cassette in the COMBI VISION, playback starts automatically if the safety tab is broken (protected cassette); otherwise you must press PLAY (►).

If you try to record on a protected cassette (safety tab broken), the cassette is ejected.

Selecting the Video Standard (depending on the model)

➢ This function is not available on UK model.



To play back a cassette correctly, the appropriate video standard must be selected.

➢ It is recommended that you select the **AUTO** option so that the standard is determined automatically by this unit and that you only change the setting if this unit is unable to identify the cassette automatically.

1 Press V. MENU (📼).
Result: The VCR menu is displayed.

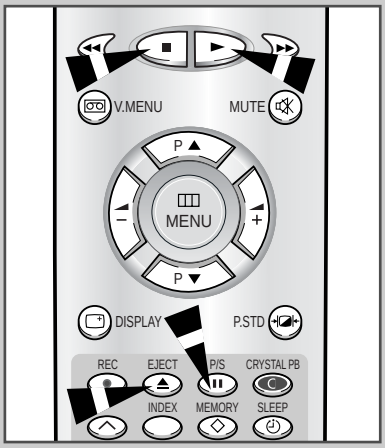
2 Select the **V.SYSTEM** option by pressing the P ▲ or ▼ button the required number of times.

3 Select the required standard by pressing + or - one or more times.
Result: The picture appears correctly. If you have not selected the correct standard, the picture may appear in black and white.

4 When you are satisfied with the settings, press V. MENU (📼) one or more times to exit the menu.

GB

Playing a Cassette



To play back any pre-recorded cassette, proceed as follows.

1 Insert the cassette in the compartment, with the tape window visible (facing upwards) and the open side of the cassette towards the back.
Result: The tape counter, current function and recording speed appear on the screen.

2 If the safety tab on the cassette is intact, press PLAY (►). Otherwise, the cassette is played automatically.

➢ When a cassette is loaded, the tape position is optimised automatically to reduce disturbance (Auto Tracking).

If the end of the tape is reached during playback, the cassette is rewound automatically.

3 If you wish to stop the playback temporarily, press P/S (❚❚).

➢ If noise bars appear in the picture, refer to the section entitled "Adjusting the Picture Quality during Playback" on page 25.

When you have been using the Still mode for more than about five minutes, the VCR will automatically play to protect the cassette and video heads.

To return to normal playback, press PLAY (►) again.

4

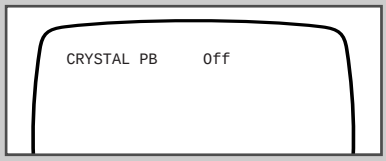
To...	Press...
Stop the playback	STOP (■).
Eject the cassette	EJECT (▲).

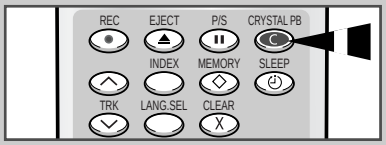
➢ When playing back a cassette, you cannot watch a television programme.

☛ Depending on the cassette tape, If the volume setting is 35 or greater, the picture may flicker on the screen. Reduce the volume.

Using the Crystal PlayBack

Press CRYSTAL PB to compensate a poor rental tape.





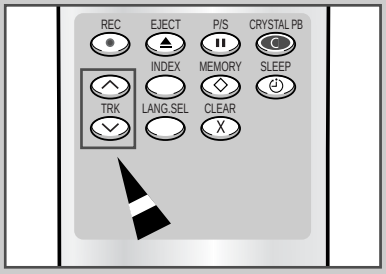
1	Insert a tape and press PLAY.
2	Press the CRYSTAL PB button on the remote control, and then **CRYSTAL PB** option is displayed with **Off**.
3	To activate (to **On**) the feature, press the CRYSTAL PB button again.

➢
- ◆ The Crystal Playback (IPC) activates only when a tape is being played.
- ◆ If the tape is reinserted, the **CRYSTAL PB** becames **Off**.

Adjusting the Picture Quality during Playback

This set has an inbuilt tape alignment system (A.TRK) that selects the optimum position for the tape automatically. If, however, noise bars (streaks) appear at the top or bottom of the picture during playback (particularly in slow motion), you can adjust the alignment of the image to obtain the best possible picture.

Picture stability can be adjusted more easily in the Pause and Slow Motion modes.



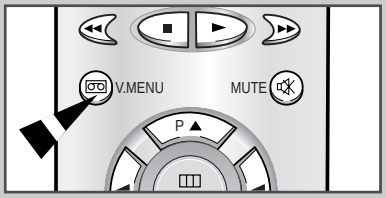
To adjust alignment, press the TRK ∧ or ∨ buttons until the picture is clear and stable.

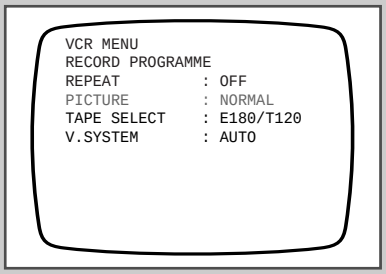
➢ Even if you cannot remove all noise bars, choose the setting that gives the clearest picture.

Adjusting the Picture Contours

When playing back a cassette, you can change the picture contours in line with your personal preferences. Three settings are available:

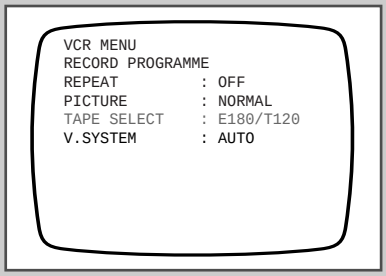
- ◆ ***Normal, Sharp, Soft***





1	Press V.MENU ( ) to display the VCR menu.
2	Select the **PICTURE** option by pressing the P ▲ or ▼ buttons the required number of times.
3	Press + or - to select one of the following options: **NORMAL** for a standard picture **SHARP** for a crisper picture **SOFT** for a softer picture
4	When you are satisfied with the setting, press V.MENU ( ) one or more times to return to normal viewing.

Selecting the Type of Cassette Tape

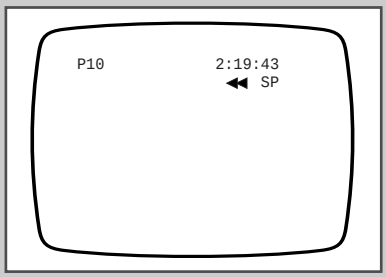


If you wish to use the tape counter to display the time remaining on a cassette, you must indicate the type of cassette inserted.

1	Press V.MENU ( ) to display the VCR menu.
2	Select the **TAPE SELECT** option by pressing the P ▲ or ▼ buttons the required number of times.
3	Press + or - to select type of cassette tape. **E180/T120 → E240/T160 → E260/T180 → E300**

Rewinding and Fast-forwarding a Cassette

GB



You can:

- ***Rewind or fast-forward a cassette without seeing the picture on the television***
- ***Search for a given sequence forwards or backwards on the tape***

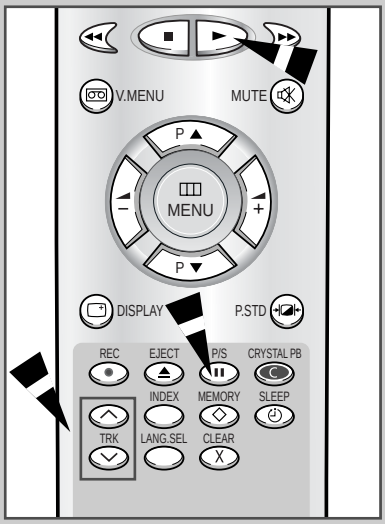
To...	Then press...
Rewind the tape without viewing the picture	REW (◀◀) when the cassette is stopped.
Rewind the tape while viewing the picture (Reverse Search function)	REW (◀◀) when the cassette is playing.
Switch from reverse searching to playback again	REW (◀◀) while rewinding the tape with the picture displayed.
Fast-forward the tape without viewing the picture	FF (▶▶) when the cassette is stopped.
Fast-forward the tape while viewing the picture (Forward Search function)	FF (▶▶) when the cassette is playing.
Switch from forward searching to playback again	FF (▶▶) while fast-forwarding the tape with the picture displayed.

- When pressing the REW(◀◀) or FF(▶▶) buttons for more than 2 seconds in the "PLAY" or "RPS/FPS (Reverse Picture Search / Forward Picture Search)" modes speed up. Normal speed resumes ("PLAY") when the REW(◀◀) or FF(▶▶) buttons are released.
- The cassette is rewound automatically when the end of the tape is reached.
  If you press POWER (⏻) while a cassette is being rewound, the COMBI VISION switches automatically to Standby mode and the cassette continues rewinding until the beginning of the tape is reached.

Playing a Sequence Frame by Frame

You can:

- ***Stop the cassette on a given frame (image)***
- ***Advance one frame at a time***



No sound is heard when playing back a cassette frame by frame.

1 Press:
- PLAY (►) to start playing the cassette
- P/S (❚❚) to stop the tape on a given frame
- P/S (❚❚) again to advance frame by frame

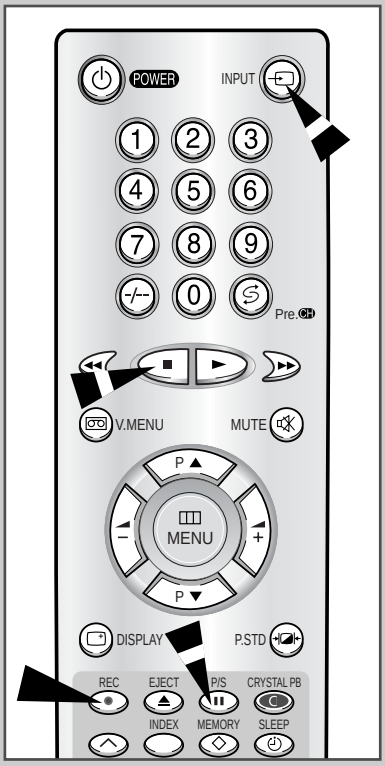
2 When playing back frame by frame, interference may occur on the screen. Press the TRK ∧ or ∨ buttons to minimise this effect.

3 To return to normal playback, press PLAY (►).

When you have been using the Frame-by-Frame function for more than about five minutes, the VCR will automatically play to protect the:

- Cassette
- Video heads

Recording a Programme Directly



Before recording a programme, you must have stored the corresponding channel. If you have not done so, refer to page 13 or 16 for more details.

➢
- If you have 1 tuner model, you cannot record one programme while watching another.
- If you have dual tuner model, you can record one programme while watching another.

1 Select:
- The TV station to be recorded using the P ▲ or ▼ buttons
  or
- The AV source using the INPUT ( ) button for a satellite tuner or external video source

Result: The channel number is displayed and the programme can be seen on the television.

2 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.

3 Hold REC (●) down for at least two seconds to start recording.

Result: The record indicator appears on the screen. An index is recorded on the tape (see page 36).

During recording you can also press DISPLAY ( ) to display the number of the programme being recorded and the remaining time on the cassette.

4

To...	Then press...
Stop recording temporarily (to avoid recording TV spots or to change channels for example)	P/S (▮▮).
Start recording again	P/S (▮▮) or REC (●).
Stop recording completely	STOP (■) once.

➢ If the VCR is left in Pause mode for more than ten minutes, recording will be stopped automatically to protect the heads and the cassette.

➢ If the cassette is ejected when you start recording, check that the safety tab is intact or the opening is covered with adhesive tape.

If you reach the end of the tape while recording, the cassette rewinds automatically.

GB

Recording a Programme with Automatic Stop

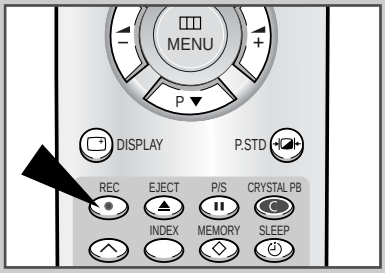
This function enables you to record up to four hours of programmes.

The VCR unit stops automatically after the requested length of time.

1 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.

2 Select:

- The TV station to be recorded using the P ▲ or ▼ buttons
  or
- The AV source using the INPUT button ( ) for a satellite tuner or external video source

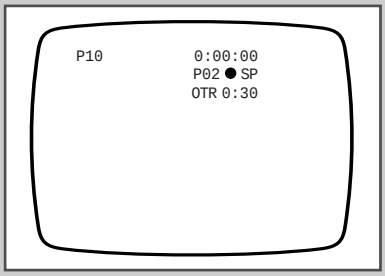


Result: The channel number is displayed and the programme can be seen on the television.

3 Hold REC (●) down for at least two seconds to start recording.

Result: The record indicator appears on the television screen.

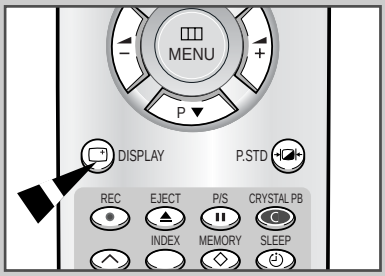
4 Press REC (●) several times to increase the recording time in 30-minute intervals up to four hours.



Result: The length of time is displayed. The selected programme is recorded for the length of time requested. At the end of that time, the VCR unit stops recording automatically.

5 If you wish to cancel the recording before the end, press REC (●) several times until **0:00** is displayed or press STOP/EJECT (▲) on front panel.

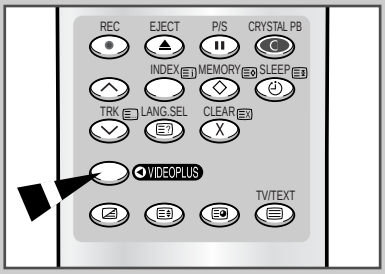
Result: The VCR unit stops recording after six seconds.

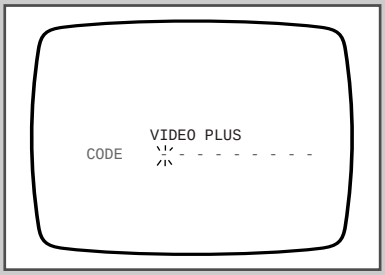


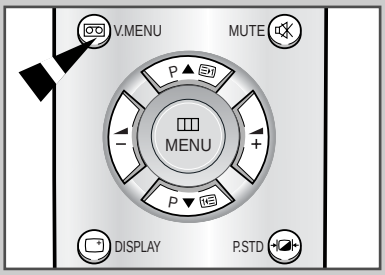
➢ If the end of the tape is reached while recording, the recording stops.

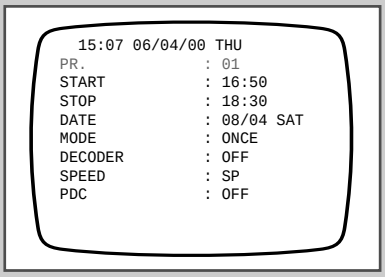
During recording you can press DISPLAY ( ) to display the recording time remaining.

Using the VIDEOPlus+ Feature (depending on the model)









GB

Before presetting your VCR unit:

- ***Check that the language, date and time are correct (if the clock has not been set, the Date/Time Setting function is activated automatically)***
- ***Insert the cassette on which the programme is to be recorded (safety tab intact)***

Up to six programmes can be preset.

1 Press the VIDEOPLUS button.

Result: A message is displayed to allow you to enter the VIDEOPLUS code.

☛ If there is no VIDEOPLUS button on your remote control, the VIDEOPLUS feature is not available on your model. If all six programmes have been set, the list of preset recordings is displayed to enable you to modify an existing recording or clear one that you no longer require. Refer to page 34 for further details.

2 Press the numeric buttons to enter the code opposite the programme that you wish to record in your television magazine.

➢ If you wish to correct the VIDEOPLUS code that you are entering:

- Press the - button until the digit to be corrected is cleared
- Enter the correct digit

3 Press the V.MENU ( ) button.

Result: The information concerning the programme is displayed.

☛ When using the VIDEOPLUS function for the first time with stored stations, the programme number flashes. This one time, you must enter the number manually.

4 If necessary, enter the channel number by pressing the appropriate numeric buttons.

5 When you are satisfied, press the P ▼ button.

6 If necessary, modify the start time by pressing the appropriate numeric buttons. When you are satisfied, press the P ▼ button.

☛ When entering the date and time, all single digits must be preceded by a zero.

Example: 7:30 am
Enter 07:30

If an invalid number is entered, the previous value is redisplayed. Enter the information again. If you make a mistake, press the - button several times to move backwards until the incorrect digit is cleared and then enter the correct number.

continued...

7 If necessary, modify the stop time in the same way. When you are satisfied, press the P ▼ button.

8 If necessary, modify the date on which the recording is to take place. When you are satisfied, press the P ▼ button.

➢ The month is displayed automatically, as follows.

If the day entered is...	Then...
Before the current date	The next month is displayed.
The same as or after the current date	The current month is displayed.

Example: If today's date is 20th November and you specify the 2nd as the recording date, December (12) is selected automatically.

9

To record a programme...	Then press the + button one or more times to select...
Once	**ONCE**.
Every day (Monday...Friday) at the same time	**DAILY**.
Every week on the same day and at the same time	**WEEKLY**.

When you are satisfied, press the P ▼ button.

10 Indicate whether you wish to use a decoder **ON** or not **OFF**.

☛ If you have no scramble decoder, please do not set decoder "ON" and the set will be recorded through "AV INPUT".

11 Indicate whether you wish to use PDC **ON** or not **OFF** (Option).

12 When you are satisfied with all your settings, press V.MENU ( ) the required number of times to return to normal viewing.

☛ DO NOT press MENU ( ) to exit the menu system; if you do, your settings are not stored and the programme will not be recorded.

13 Press POWER ( ) to activate the timer.

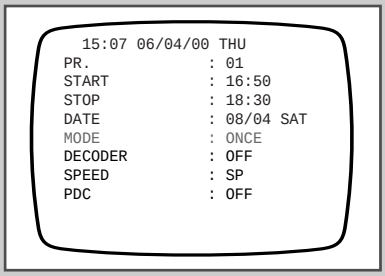
(Option) If you have a dual tuner model you don't have to press POWER ( ), because you can watch TV while VCR is recording a different channel.

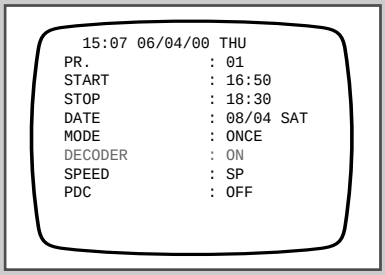
Result: The Timer indicator on the front panel lights up.

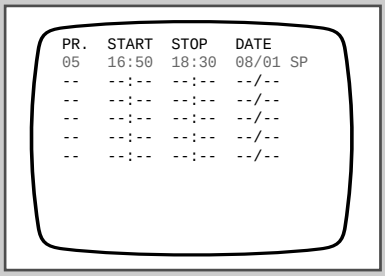
☛ If no cassette has been inserted when you press POWER ( ), the Timer indicator flashes. If the safety tab on the cassette has been broken, the Timer indicator flashes. Insert the appropriate cassette. If there is a power failure or you disconnect the COMBI VISION from the wall socket, all your settings are lost.

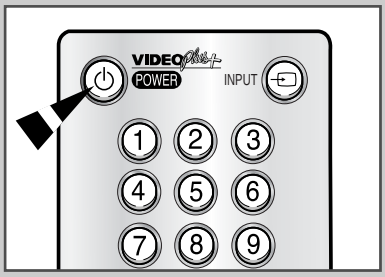
14 Refer to page 34 if you wish to:

- Check that your VCR unit has been programmed correctly
- Cancel a preset recording



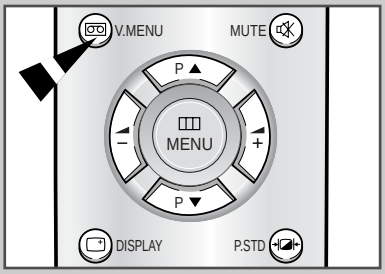


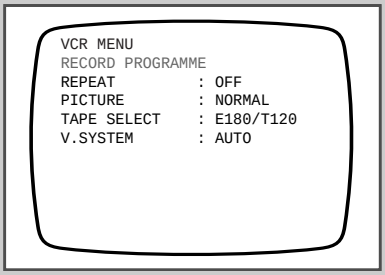


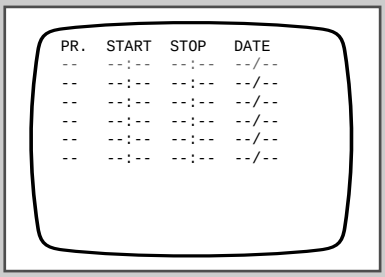


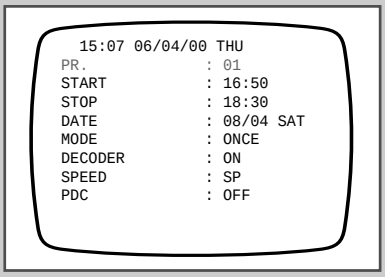
➢ VIDEOPlus+ is a trademark applied for by Gemstar Development Corp. VIDEOPlus+ system is manufactured under licence from Gemstar Development Corporation.

Setting the VCR Unit to Record ...









This function enables you to preset the VCR unit to record a programme up to one month before that programme is to be broadcast. Up to six programmes can be preset.

You must provide the following information on the broadcast to be recorded:

- ***Programme number***
- ***Recording speed (LP option)***
- ***Start time***
- ***End time***
- ***Date***
- ***Recording mode (once, daily, weekly)***
- ***Optional use of a decoder***

Before presetting your VCR:

- ***Check that the language, date and time are correct (if the clock has not been set, the Date/Time Setting function is activated automatically)***
- ***Insert the cassette on which the programme is to be recorded (safety tab intact)***

1 Press V.MENU ( ).
Result: The VCR menu is displayed.

2 Select the **RECORD PROGRAMME** option by pressing the + button.
Result: The list of preset recordings is displayed.

3 Select a line that is free (no recording set) by pressing the P ▲ or ▼ buttons one or more times.

4 Press the + button to confirm your selection.
Result: The list of information to be entered for the recording is displayed with preset values.

5 Enter the channel number by pressing the appropriate numeric buttons or press INPUT ( ) to select the AV input.

6 Specify the start time by pressing the appropriate numeric buttons. When you are satisfied, press the P ▼ button.

☛ When entering the date and time, all single digits must be preceded by a zero.
Example: 7:30 am
Enter 07:30
If an invalid number is entered, the previous value is redisplayed. Enter the information again. If you make a mistake, press the - button several times to move backwards until the incorrect digit is cleared and then enter the correct number.

... a Programme Automatically

7 Specify the stop time. When you are satisfied, press the P ▼ button.

8 Indicate the date on which the recording is to take place. When you are satisfied, press the P ▼ button.

➢ The month is displayed automatically, as follows.

If the day entered is...	Then...
Before the current date	The next month is displayed.
The same as or after the current date	The current month is displayed.

Example: If today's date is 20th November and you specify the 2nd as the recording date, December (12) is selected automatically.

9

To record a programme...	Then press the + button one or more times to select...
Once	**ONCE**.
Every day (Monday...Friday) at the same time	**DAILY**.
Every week on the same day and at the same time	**WEEKLY**.

When you are satisfied, press the P ▼ button.

10 Indicate whether you wish to use a decoder **ON** or not **OFF**.

☛ If you have no scramble decoder, please do not set decoder "ON" and the set will be recorded through "AV INPUT".

11 Indicate whether you wish to use PDC **ON** or not **OFF** (Option).

12 When you are satisfied with all your settings, press V.MENU ( ) one or more times to return to normal viewing.

☛ DO NOT press MENU ( ) to exit the menu system; if you do, your settings are not stored and the programme will not be recorded.

13 Press POWER ( ) to activate the timer.

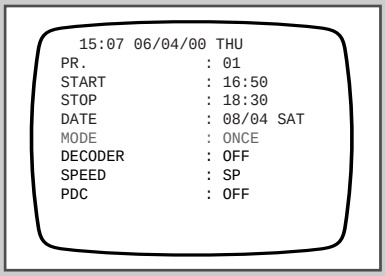
(Option) If you have a dual tuner model you don't have to press POWER ( ), because you can watch TV while VCR is recording a different channel.

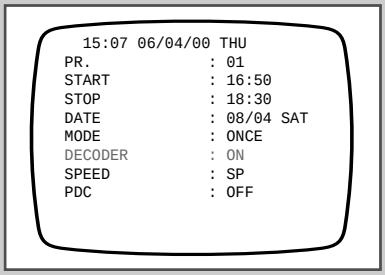
Result: The Timer indicator on the front panel lights up.

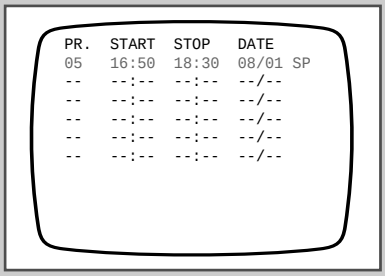
☛ If no cassette has been inserted when you press POWER ( ), the Timer indicator flashes. If the safety tab on the cassette has been broken, the Timer indicator flashes. Insert the appropriate cassette. If there is a power failure or you disconnect the COMBI VISION from the wall socket, all your settings are lost.

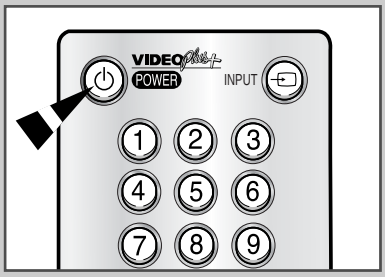
14 Refer to page 34 if you wish to:
- Check that your VCR unit has been programmed correctly
- Cancel a preset recording

➢ If the TIMER indicator flashes, insert the appropriate cassette or cancel the programme which is no longer required.

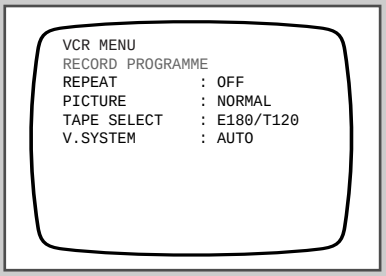


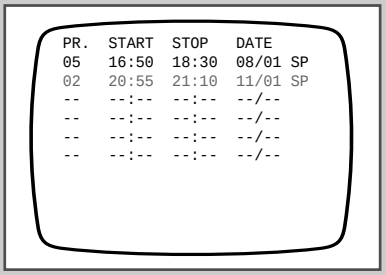






Checking a Preset Recording





You can check your preset recordings:

- ***When you have finished presetting the VCR unit***
- ***If you have forgotten which programmes will be recorded***

➢ You can change the language used to display the information if it is incorrect. To do so, refer to page 11.

1 Press V.MENU ( ) to display the VCR menu.

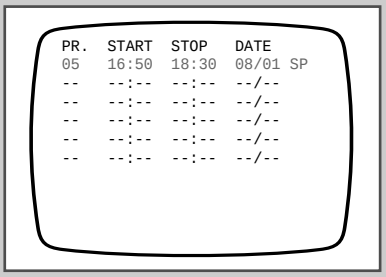
2 Select the **RECORD PROGRAMME** option by pressing the + button.

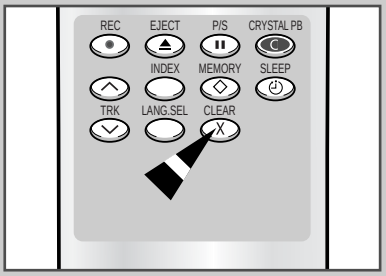
Result: The list of preset recordings is displayed with the corresponding information (date, times, options, etc.).

3 When you have finished, press V.MENU ( ) the appropriate number of times to return to normal viewing.

GB

Cancelling a Preset Recording





Once a preset recording has been completed, the corresponding line in the list of preset recordings is cleared and no action is required on your part.

You can, however, cancel any programmes that are:

- ***Set to be recorded on a daily or weekly basis***
- ***Incorrect***
- ***No longer required***

1 Press V.MENU ( ) to display the VCR menu.

2 Select the **RECORD PROGRAMME** option by pressing the + button.

Result: The list of preset recordings is displayed with the corresponding information (date, times, options, etc.).

3 Select the programme to be cancelled by pressing P ▲ or ▼ one or more times.

4 Press CLEAR (X).

Result: The programme is cancelled and the broadcast will not be recorded.

5 When you have finished, press V.MENU ( ) the appropriate number of times to return to normal viewing.

Using the Tape Counter to Search for a Sequence

The tape counter:

- ***Indicates the elapsed time in the play and record modes (hours, minutes and seconds)***
- ***Is reset when a cassette is inserted in the VCR unit***
- ***Enables you to find the beginning of a sequence easily***

1 Insert a cassette in your VCR unit.

2 Press DISPLAY ( ).

Result: The tape counter is displayed: **0:00:00**.

➢ The tape counter does not necessarily start from zero at the beginning of the tape.

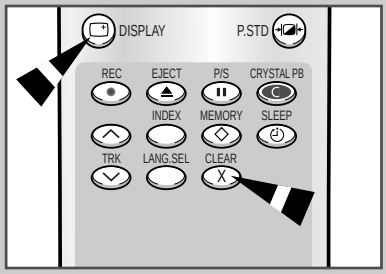
3 Select the required operation (play, record, fast-forward, rewind).

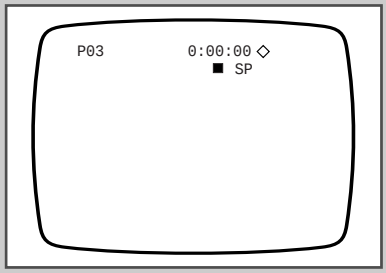
Result: The tape counter indicates how long the cassette has been running.

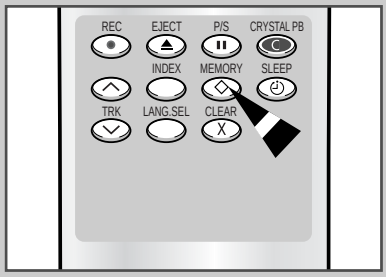
4 To set the tape counter to zero at the beginning of a sequence:
- Press DISPLAY ( ) to display the counter
- Press CLEAR (X) when you want to set the tape counter to zero

5 To fast-forward or rewind to the sequence at which the counter was set to zero, simply:
- Press FF (▶▶) or REW (◀◀)
- Press STOP (■) when the cassette reaches zero

➢ With the counter display on the screen press the MEMORY(◇) button to activate the memory(MEMORY ON " ◇ "). With the memory "ON" the tape will stop automatically during FF or rewind when the counter reaches the **0:00:00** position.

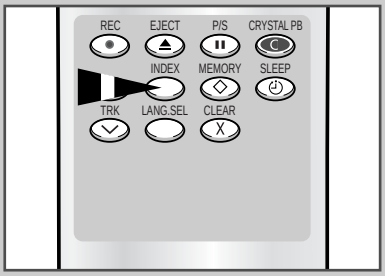






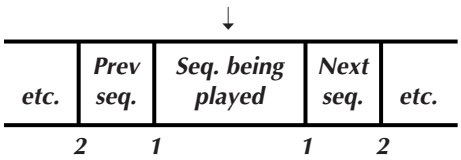
01:28

Using the Indexes to Search for a Sequence



Each time you record a cassette, an "index" is automatically marked on the tape when recording starts.

The Search function enables you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows:



➢ This VCR unit uses a standard indexing system. As a result, it will recognize any indexes marked by other VCRs using the same system and vice versa.

1 To search for a specific index, press INDEX.

2 Enter the number of the index to be found using the numeric buttons.

➢ When entering a single digit number, do not forget to precede it with a zero.
Example: 02.

Result: The index number is displayed.

3 Select the direction in which the VCR unit is to search:
- REW (◀◀) to search backwards
- FF (▶▶) to search forwards

Result: When the index is found, cassette playback starts.

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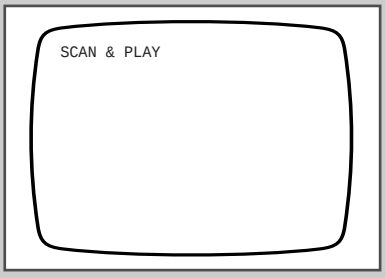
Scanning the Index Markings



You can scan the various indexes on the cassette to find the beginning of the programme or sequence that you wish to watch.

1 To scan through all indexes in a given direction, press:
- INDEX to start the search
- REW (◀◀) or FF (▶▶) within six seconds to indicate the direction

Result: The **SCAN & PLAY** indication is displayed. When an index is found, the VCR unit:
- Plays the sequence for five seconds
- Scans for the next index until it reaches the beginning or end of the tape

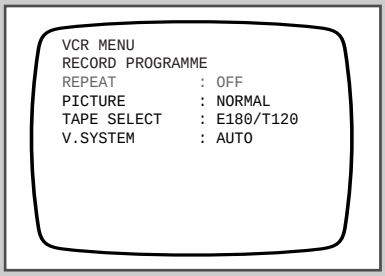
2 Press:
- PLAY (▶) when the required sequence is reached
  or
- STOP (■) to stop the scan

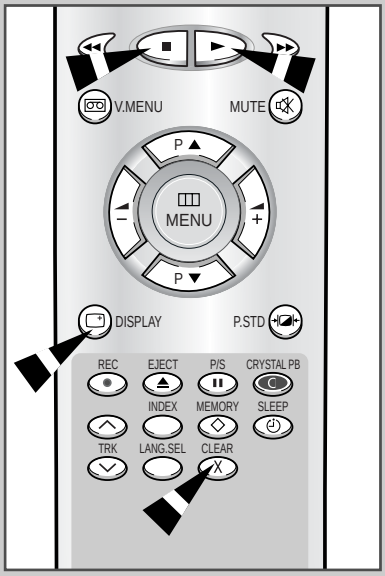
Repeating Playback of a Sequence or Cassette

This function enables you to play back:

- ***The whole cassette***
- ***A specific sequence on the cassette***

You can specify any length between 1 minute and 59 minutes.





1 Press V.MENU ( ) to display the VCR menu.

2 Select the **REPEAT** option by pressing P ▼.

3

To...	**Press the + button one or more times to select...**
Repeat the whole cassette	**ALL**. Go to Step **5**.
Repeat a specific sequence	**0~0:00**. Go to Step **4**.
Deactivate the function	**OFF**.

4 If you wish to repeat a specific sequence, enter the length of the sequence in minutes using the numeric buttons.

Example: To repeat a sequence lasting 35 minutes, enter 0:35.

5 Select the location on the cassette where you wish to start repeating the sequence and set the tape counter to zero by pressing DISPLAY ( ) followed by CLEAR (X).

6 Press PLAY (►) to start the playback.

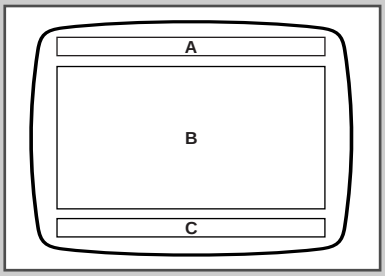
Result: The cassette is played back for the specified length of time and is then rewound. When the tape counter reaches zero, the sequence is played back again.

7 To cancel the repetition:

- Press STOP (■)
- Set the **REPEAT** option to **OFF**

01:28

Teletext Feature (depending on the model)



Most television channels provide a written information service via Teletext. They provide such information as:

- ***Television programme times***
- ***News bulletins***
- ***Weather forecasts***
- ***Sports results***
- ***Travel information***

This information, which you cannot modify, is divided into numbered pages laid out as follows:

Part	Contents
A	Header information, such as the: ◆ Selected page number ◆ Broadcasting channel identity ◆ Current page number or search indications ◆ Date and time
B	Text.
C	Status information.

➢ Teletext information is often divided between several pages displayed in sequence. These pages can be accessed in different ways:

- By entering the page number
- By selecting a title in a list
- By selecting a coloured heading (FASTEXT system)

You can also store a few pages to be displayed later in sequence. The pages remain available even after the television is switched off and on again.

GB

Displaying the Teletext Screen

You can display Teletext information at any time on your television screen.

For Teletext information to be displayed correctly, channel reception must be good; otherwise:

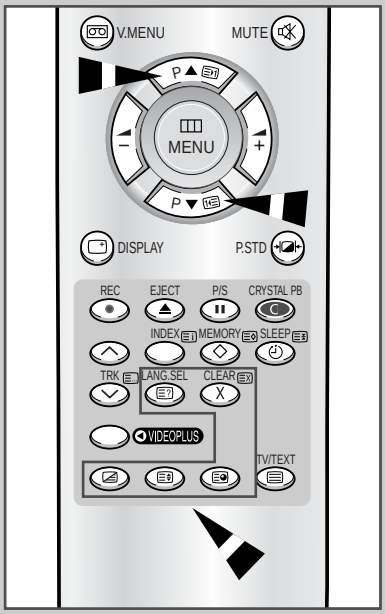
- Information may be missing
- Some pages may not be displayed

To activate the Teletext mode and display the contents page, follow the instructions below.

1	Select the channel providing the Teletext service, using the P ▲ or ▼ buttons.
2	Press the button to activate the Teletext mode. Result: The contents page (It can be redisplayed or the sub index can be redisplayed by pressing the button) is displayed. It can be redisplayed at any time by pressing the button.
3	When you have finished, press the button to return to normal viewing.

Selecting Display Options

When you have displayed a Teletext page, you can select various options to suit your requirements.



To...	Press...
Display the next page	.
Display the previous page	.
Display both the Teletext information and the normal broadcast	.
Temporarily hide the Teletext page to view the normal broadcast (press the same button again to recall the same page)	.
Reveal hidden text (answers in questionnaire games, for example)	.
Select a secondary page by entering its number	.
Display in double-height letters the... ◆ Upper half of the screen ◆ Lower half of the screen	 ◆ Once ◆ Twice

To return to the normal display after using the hidden text or double-height letter features, press the same button again.

Selecting a Teletext Page

You can enter the page number directly by pressing the numeric buttons on the remote control.

1 Enter the three-digit page number given in the contents, by pressing the corresponding numeric buttons.

Result: The current page number is incremented until the requested page is reached. That page is then displayed.

2 If the selected page is linked with several secondary pages, the secondary pages are displayed in turn.

To freeze the display on a given page, press .

Press again to continue the display.

3 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.

Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

Result: The page is displayed with other coloured information that can be selected in the same way.

4 When you have finished, press the button to return to your normal broadcast.

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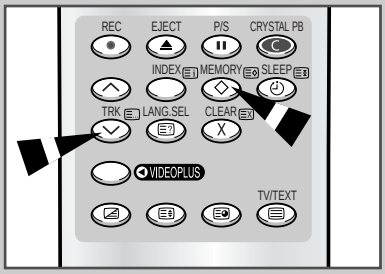
Storing Teletext Pages

You can store up to eight times four Teletext pages, that is 32 pages, to display them later at leisure.



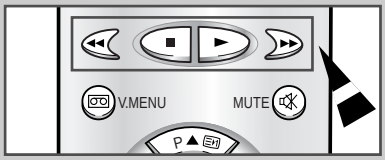
➢ The button is used to switch between the:

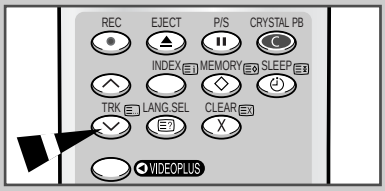
- **LIST** mode (**L** displayed on the status line)
- **FASTEXT** mode (**F** displayed on the status line)

1	If you are in FASTEXT mode, select the LIST mode by pressing . Result: Four 3-digit numbers are displayed in different colours on the status line, preceded by the indication **L**.
2	Press the coloured button corresponding to the page to be replaced.
3	Enter the new page number using the numeric buttons.
4	Repeat Steps **3** and **4** for each page to be stored, using a different coloured button each time.
5	Hold down the button to store the pages until the corresponding blocks are displayed in white.
6	Repeat Steps **2** to **6** if you wish to store other pages on different lines.
7	When you have finished, press to return to the FASTEXT mode.

Recalling a Stored Teletext Page

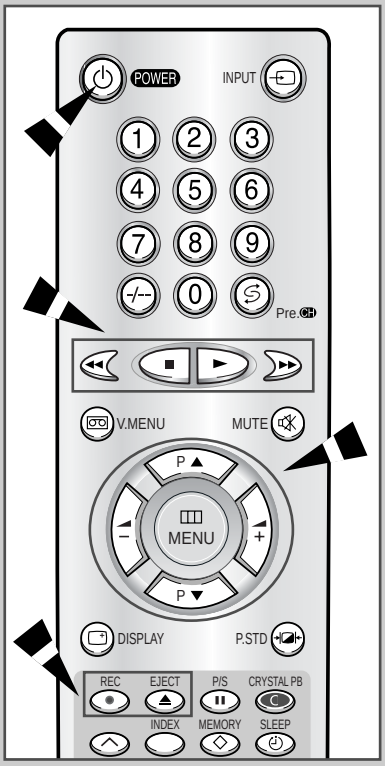
You can recall any of the 32 pages stored in the LIST mode.





1	Select the LIST mode by pressing .
2	Press the coloured button corresponding to the pages to be recalled. Result: The corresponding Teletext page appears.

Using the Buttons on the Front Panel



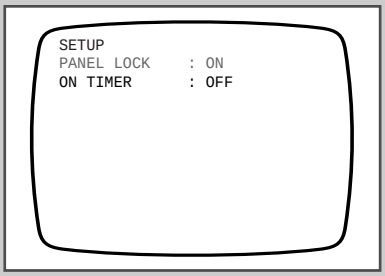
If your remote control no longer works or you have lost it, you can perform the following operations using the controls on the front panel of the television:

- ***Channel storage (Auto Programming Only)***
- ***Channel selection***
- ***Volume adjustment***
- ***Cassette playback, recording, rewinding, fast-forwarding and ejecting***

Remote Control	Front Panel
POWER (⏻)	POWER (⏻)
VOL +	VOLUME +
VOL -	VOLUME -
P ▲	CHANNEL ▲
P ▼	CHANNEL ▼
PLAY (►)	PLAY (►)
REW (◄◄)	REW (◄◄)
FF (►►)	FF (►►)
STOP (■)	STOP/EJECT (▲)
EJECT (▲)	STOP/EJECT (▲)
REC (●)	VOLUME + and − at the same time or REC (option)
MENU (▭)	MENU (in television mode only)

➢ The date and time can only be set using the numeric buttons on the remote control and the VCR menu is not available via the front panel.

Locking the Front Panel



The front panel of the COMBI VISION can be locked to prevent it from being used by young children for example.

1	To lock the front panel, display the television menu by pressing MENU (▭).
2	Select the **SETUP** option by pressing the P ▲ or ▼ buttons the required number of times.
3	Press the + button.
4	Select the **PANEL LOCK** option by pressing the P ▲ or ▼ buttons the required number of times.
5	Select **ON** by pressing the + button. Result: The buttons on the front panel no longer have any effect.
6	To unlock the front panel, set the **PANEL LOCK** option to **OFF**.

GB

Connecting Earphones

You can connect a set of earphones to your television if you wish to watch a television programme without disturbing the other people in the room.

1 Plug a set of earphones into the 3.5 mm mini-jack socket on the front (or side) of the television.

Result: The sound is heard through the earphones and the television's loudspeakers are inhibited.

2 When you wish to hear the sound through the loudspeakers again, simply disconnect the earphones.

☛ Prolonged use of earphones at a high volume may damage your hearing.

➢ The actual configuration on your TV may be different, depending on your model.

Cleaning the Video Heads

If you find that the quality of the pictures is poor, you can use a special cleaning cassette (purchased from your local video dealer).

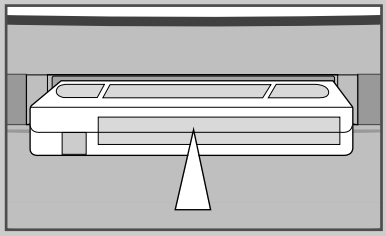
1 Insert the cleaning cassette.

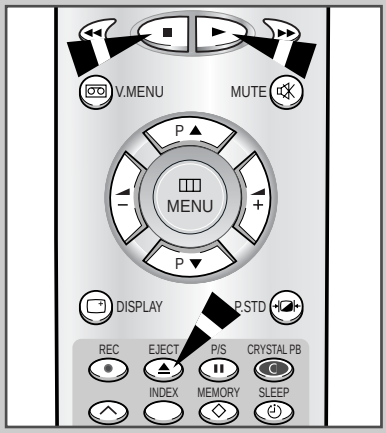
2 Press PLAY (►).

3 After about 10 to 15 seconds, press STOP (■), followed by EJECT (▲) to eject the cassette.

4 Repeat the operation if necessary.

☛ If the quality of the picture is not improved after having cleaned the video heads, refer to the section entitled "Before Contacting the After-sales Service" on the following page.





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Before Contacting the After-sales Service

Before contacting the SAMSUNG after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

Problem	Explanation/Solution
No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the POWER button (⏻). ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the volume MUTE button (🔇) has been pressed on the remote control.
No picture or black and white picture	◆ Adjust the colour settings. ◆ Check that the colour system selected is correct. ◆ You are playing back a cassette that does not correspond to the selected video standard.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the television and move it further away. ◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
You cannot insert a video cassette	◆ A video cassette can only be inserted with the window side up and the safety tab facing you.
The buttons on the front panel have no effect	◆ The panel lock function has been activated; refer to page 44 for further details.
The television programme was not recorded Timer recording was unsuccessful	◆ Check that the safety tab on the cassette is intact. ◆ Check the timer settings. If there was a power failure or interruption during timer recording, the recording will have been cancelled. ◆ Check that the POWER button (⏻) was pressed to activate the timer (POWER/STANDBY and TIMER indicators on). : 1 Tuner model.
Noise bars or streaks on playback	◆ Adjust the vertical alignment of the picture; refer to page 25. ◆ Change cassettes. This cassette may be excessively worn.
When the P/S button (▮▮) is pressed during playback, the still picture has severe “noise bar” streaks	◆ A still picture may have “noise bars”, depending on the condition of the tape. ◆ Adjust the vertical alignment of the picture; refer to page 27.
The rewind or fast-forward functions have no effect	◆ Check that the tape is not already at the beginning or end of the cassette respectively.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals. ◆ Check that the remote control sensor on the front panel is not masked by any objects.

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Technical Specifications

The descriptions and characteristics given in this booklet are given for information purposes only and are subject to modification without notice.

TELEVISION PART	
Colour systems	PAL
TV standards	I
Number of channels	100 programmes
Reception range/cable TV	Hyperband/interband tuner
Aerial input	75 Ohms, coaxial cable
VCR PART	
Format	VHS standard (PAL/ NTSC-in playback only)
Heads	Video: 2 rotary heads, LP
	Audio/Control: 1 stationary head (linear)
	Erase: 1 full track erase head
Luminance	FM azimuth recording
Colour	Down converted subcarrier phase shifted direct recording
FF/REW time	Less than 100 seconds in FF with E-120
Wow and flutter (WTD)	0.4% maximum (SP)
Frequency response	100 Hz - 8 KHz (Mono)
	100 Hz - 20 KHz (Hi-Fi)
GENERAL	
Power supply	220-240V~, 50Hz
Consumption	14”/15” (50W)
	20”/21” (60W)
Audio output power	14”/15”/ 20” (2W)
	21” (1Watts x 2)
Number of loudspeakers	14”/15”/20” (1)
	21” (2)
Tube size	14” (37cm/34cmV)
	15” (38cm/36cmV)
	20” (51cm/48cmV)
	21” (55cm/51cmV)
Tube type	BLACK MATRIX
Sockets	1 full RGB SCART on the rear
	1 RCA input (audio and video) on the front (or side)
	Earphones output (3.5 mm mini-jack)
	1 aerial/cable TV coaxial input
Dimensions (W x D x H)	14” (368 x 390 x 381)
	15” (411 x 401 x 417)
	20” (486 x 473 x 485)
	21” (520 x 495 x 508)
Weight	14” (11.8kg)
	15” (14.8 kg)
	20” (19 kg)
	21” (23.2 kg)
Operating temperature	5°C - 40°C (41°F - 104°F)
Relative humidity	10% - 75%

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Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.
If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.
However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug.
Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL **BROWN - LIVE**

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows: The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚ , OR COLOURED GREEN OR GREEN AND YELLOW.

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SCART Connector Wiring

If you wish to connect other equipment via the SCART connector on your COMBI VISION, contact your dealer or a qualified technician to wire the AV cable as illustrated below.

Pin	Signal	Pin	Signal
1	Audio output R	12	-
2	Audio input R	13	Video chassis return (RGB red)
3	Audio output L	14	-
4	Audio chassis return	15	RGB red input
5	Video chassis return (RGB blue)	16	Blanking signal (RGB switching)
6	Audio input L	17	Video chassis return
7	RGB blue input	18	Blanking signal ground
8	Switching voltage	19	Video output
9	Video chassis return (RGB green)	20	Video input
10	-	21	Screening/chassis return
11	RGB green input		

➢ Pins 5, 7, 9, 11, 13, 15 and 16 are used for RGB processing.

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Using Your Combi Vision Abroad

You can use your COMBI VISION in many countries. Each country has its own broadcasting standard. Refer to the following table to determine in which countries you can use it.

PAL B/G	Afghanistan, Algeria, Australia, Austria, Bangladesh, Belgium, Brunei, Burundi, Denmark, Finland, Germany, Ghana, Greenland, Holland, Iceland, India, Indonesia, Italy, Jordan, Kenya, Kuwait, Liechtenstein, Malaysia, Mozambique, Nepal, New Guinea, New Zealand, Nigeria, Norway, Oman, Pakistan, Papua New Guinea, Portugal, San Marino, Sierra Leone, Singapore, Spain, Sri Lanka, Sudan, Sweden, Switzerland, Tanzania, Thailand, Turkey, Uganda, Yemen, Zambia, Zimbabwe.
PAL I	Great Britain, Hong Kong.
PAL D/K	China, Mongolia.
SECAM L	Andorra, France, Luxembourg, Monaco.
SECAM B/G	Egypt, Greece, Iran, Iraq, Lebanon, Morocco, Mauritania, Saudi Arabia, Syria, Tunisia.
SECAM D/K	Bulgaria, Ivory Coast, CIS.

☛ Before connecting your set, check that the local power supply corresponds to the one used by it (220V / 230V / 240V ~, 50 Hz).

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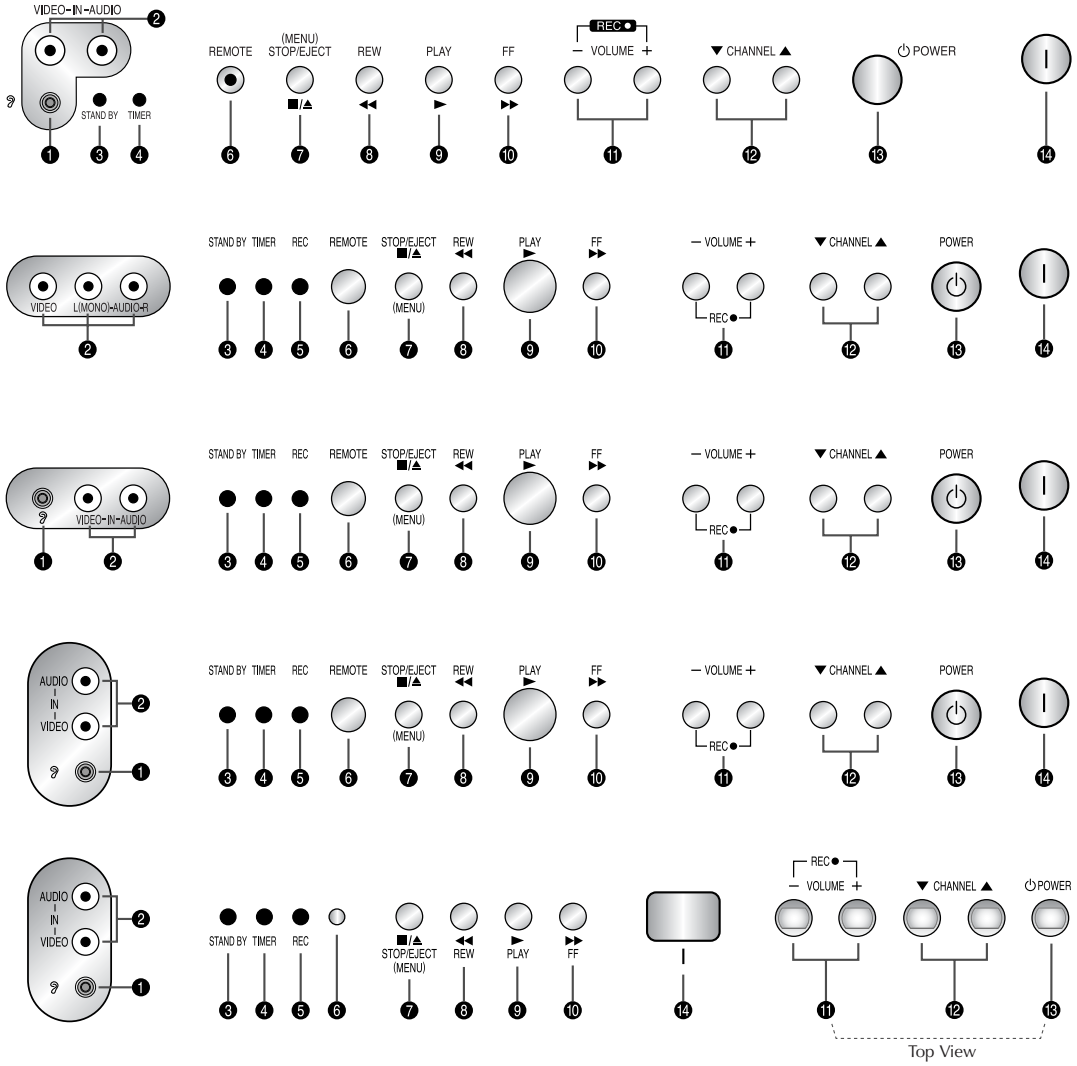
Glossary

To help you understand the main technical terms used in this booklet and take full advantage of the features on your COMBI VISION, here are a few definitions.

Tuner	Element in the set used to decode the signals received via the aerial or cable TV. The tuner can only receive one broadcast at a time, but your COMBI VISION may contain two tuners (depending on the model) to enable you to watch one programme while recording another. To receive a broadcast, the tuner must be set to the frequency of the appropriate channel.
Channel	Frequency assigned to a given broadcasting company to enable them to transmit a series of broadcasts or programmes.
Station	Broadcasts by a TV company which are transmitted on a specific channel number.
Programme Position	Number assigned to a given channel on both tuners in the COMBI VISION to help you select it more easily.
Cable TV	Coaxial cable network transmitting broadcasts on a subscription basis. The cable is connected to the same input as an aerial.
Broadcasting standard or Colour standard	Standard used to code pictures and sound. Different standards are used in different countries. In the United Kingdom for example, the PAL I standard is used.

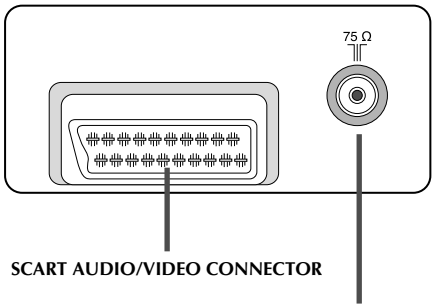
Front View of Your Combi Vision (depending on the model)

➢ ***Buttons and markings are subject to change.***



1. Earphone connector
2. RCA Audio/Video input connectors
3. Stand-by indicator
4. Timer indicator
5. Record indicator
6. Remote control sensor
7. Stop/Eject button (VCR mode) and Menu button (TELEVISION mode)
8. Rewind button
9. Play button
10. Fast-Forward button
11. Volume adjustment buttons (TELEVISION mode) or Record button (VCR mode)
12. Channel selection buttons
13. Stand-by button
14. Master switch

Rear View of Your Combi Vision



SCART AUDIO/VIDEO CONNECTOR

75 Ω COAXIAL CONNECTOR
FOR AERIAL/CABLE NETWORK

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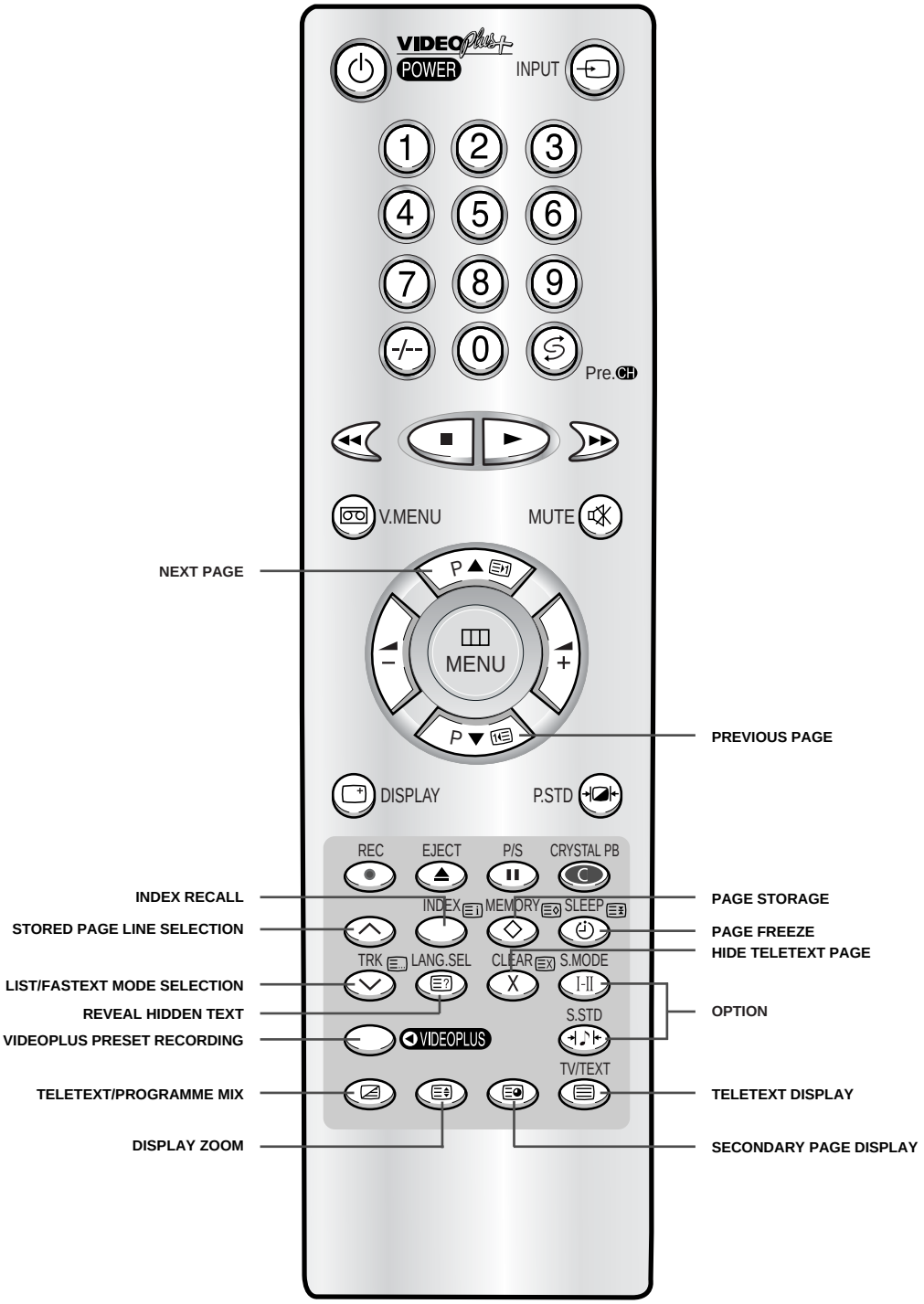
Teletext Control Buttons (Teletext Option Only)



➢ *Operation of remote control may be affected by bright artificial light near to the TV set.*

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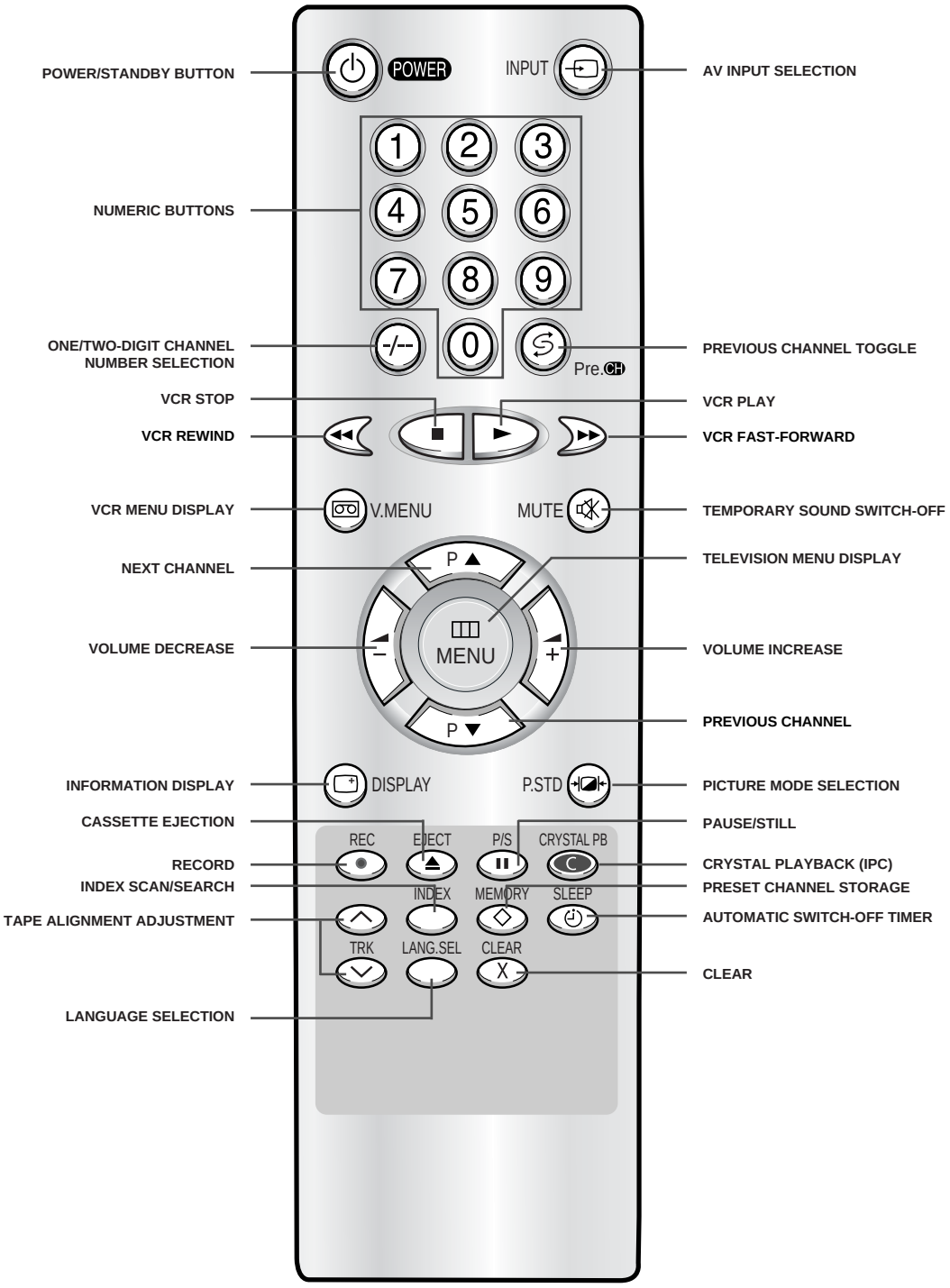
Infrared Remote Control (All Functions Except Teletext)



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